

## Kompendium słownictwa do części pisemnej egzaminu końcowego z języka angielskiego (*Use of English*) dla studiów licencjackich I stopnia Wydziału Matematyki, Fizyki i Informatyki UG.

### A.

**access control** - kontrola dostępu

The access control system ensures only authorized personnel can enter the building.

**access level** - poziom dostępu

VIPs have a higher access level, allowing them to access restricted areas.

**access point** - punkt dostępowy

The hotel lobby has an access point for guests to connect to the Wi-Fi network.

**accessible** - dostępny

The newly prepared and easy to navigate website makes the museum information more accessible to all users.

**accessible remotely** - dostępny zdalnie

With the right credentials, the company's server is accessible remotely.

**accidental power outage** - nagła przerwa w dostawie prądu

Due to an accidental power outage, the presentation was disrupted and everyone had to sit in the darkness.

**ad-hoc query** - zapytanie ad hoc

The ad-hoc query allows users to quickly retrieve specific information from the database.

**administer database** - administrować bazą danych

She has been trained to administer the database efficiently.

**align** - dopasowywać (coś do czegoś)

In order to align the documents, we need to adjust the margins.

**allocate resources** - alokować zasoby

The project manager must allocate resources effectively to meet deadlines.

**alphanumeric key** - klawisz alfanumeryczny

The right alphanumeric key is required to unlock the encrypted file.

**analytical algorithm** - algorytm analityczny

The analytical algorithm analyses vast amounts of data to find meaningful patterns.

**application layer** - warstwa aplikacji

The application layer is responsible for delivering data between different applications.

**archival data** - dane archiwalne

The folder contains a large collection of valuable archival data.

**archived data** - dane zarchiwizowane

The archived data provides valuable insights into past trends and patterns.

**artificial intelligence** - sztuczna inteligencja

Researchers use artificial intelligence to develop advanced robotic systems.

**assign** - przypisać, przydzielić

Please assign someone to investigate the security breach immediately.

**attribute** - atrybut

In object-oriented programming, attributes are defined for classes and objects. It's a data element that represents the quality or state of the class or object.

**authentication** - uwierzytelnienie, poświadczenie

Two-factor authentication adds an extra layer of security to your online accounts.

**authorization** - upoważnienie, uprawnienie, autoryzacja

I'm sorry, but you don't have the authorization to access the server room.

### B.

**backbone network** - sieć szkieletowa/sieć podstawowa

The backbone network ensures fast and efficient data transmission across the entire organization.

**backlog** - prace wstępne, lista rzeczy do wykonania

Within agile project management, product backlog refers to a prioritized list of functionality which a product should contain.

**backup** - kopia zapasowa

Regular backups are crucial to ensure that valuable data is not lost in case of hardware failure or human error.

**batch processing** - przetwarzanie wsadowe

Batch processing allows large volumes of data to be processed simultaneously, increasing efficiency and reducing processing time.

**benchmark** - wzorzec/punkt odniesienia

The benchmark score indicates the performance level of a computer system compared to others in its class.

**beneficial** - korzystny, dobroczynny

Implementing new technologies can have beneficial effects on productivity and cost savings.

**boot - rozruch**

I boot up the computer, enter my password, and it says there's a problem with my password.

**bottleneck - wąskie gardło**

The bottleneck in the computer system is causing a significant slowdown in processing speed.

**branch - gałąź**

Each branch computer is connected to the main server through a secure network to access shared resources.

**brand - marka**

The brand recognition of a company plays a crucial role in attracting customers and building trust.

**broadband system - system szerokopasmowy**

The broadband system provides high-speed internet connections to residential and commercial areas.

**browser - przeglądarka**

The browser is the primary tool for accessing and navigating websites on the internet.

**bus - magistrala**

The bus in the computer architecture is responsible for transferring data between various components of the system.

**bus network - sieć o topologii magistrali**

The bus network connects multiple computers in a local area network, allowing them to communicate and share resources.

## C.

**cabling - okablowanie**

Proper cabling infrastructure ensures reliable and efficient data transmission within an organization.

**capacity - pojemność (zespołu)**

The capacity of a computer system determines how much data it can store or process at any given time.

**capture - przechwytywać, zdobywać**

With screen capture software, users can easily capture and save screenshots for future reference.

**central processing unit (CPU) - jednostka centralna/procesor**

The central processing unit (CPU) is the brain of a computer, responsible for executing instructions and performing calculations.

**circuit - obwód**

A circuit consists of interconnected electronic components that enable the flow of electrical current.

**circuit failure - uszkodzenie obwodu**

Circuit failure can lead to system downtime and loss of critical data if not addressed promptly.

**click-through - klikalność**

Click-through rates measure the effectiveness of online advertisements by tracking how many users click on them.

**client - klient**

The client computer sends requests to a server and receives responses to access information and services on the network.

**client-server network - sieć typu klient-serwer**

A client-server network facilitates data transmission while protecting the sent data.

**closed loop - zamknięta pętla**

In this closed loop system, the output of the process is continually fed back into the input, ensuring optimal performance and accuracy.

**cloud computing platform - platforma oparta na chmurze obliczeniowej**

The cloud computing platform offers businesses the flexibility and scalability they need to run complex operations and store massive amounts of data.

**cloud infrastructure - infrastruktura chmury**

By leveraging a cloud infrastructure, companies can significantly reduce their hardware costs and increase the accessibility of their services.

**cloud-based DBMS - system zarządzania bazą danych w chmurze**

With a cloud-based DBMS, organizations can seamlessly manage their databases from any location, providing easy access and efficient collaboration among users.

**cluster - klaster**

The cluster of computers working together enables faster processing speeds and increased computational power for demanding tasks.

**coaxial cable - kabel koncentryczny**

The high-speed internet connection was established using coaxial cable, delivering reliable and uninterrupted communication.

**collect data - gromadzić dane**

To make informed decisions, it is essential to collect data from various sources and analyse them systematically.

**command key - klawisz polecenia**

By pressing the command key along with other shortcuts, users can execute specific actions on their computer quickly.

**common user network - sieć ogólnie dostępna**

The common user network facilitates communication and sharing of resources among individuals within an organization.

**communication link - łącze komunikacyjne**

The communication link between the satellite and the ground station ensures seamless transmission of data across vast distances.

**communication path - ścieżka komunikacyjna**

The communication path between two devices determines the route through which data is transmitted, affecting its speed and reliability.

**communication protocol - protokół komunikacyjny**

Standardizing communication protocols enables devices from different manufacturers to exchange data efficiently and securely.

**communication service - usługa komunikacyjna**

The telecommunication company provides excellent communication services, including voice calls, messaging, and high-speed data connections.

**comprehensive real-time view - pełny wgląd w czasie rzeczywistym**

The comprehensive real-time view allows managers to monitor all aspects of the operation simultaneously, enabling swift decision-making.

**computation - obliczenia**

Computation plays a crucial role in solving complex problems and analysing vast amounts of data in various scientific fields.

**computer network topology - topologia sieci komputerowej**

Understanding different computer network topologies enables professionals to design robust and efficient systems that meet specific requirements.

**concurrent access - równoczesny dostęp**

Concurrent access to information and resources is a fundamental aspect of modern communication and collaboration in today's digital world.

**concurrent user - współużytkownik**

The online platform can support thousands of concurrent users, ensuring smooth and uninterrupted service for all participants.

**connector - złącze**

The connector allows the seamless integration of different devices and facilitates the transfer of data and signals between them.

**content - zawartość**

The website's content is regularly updated to keep users engaged and informed.

**continuous - ciągły**

His continuous questioning of authority eventually led to his dismissal.

**continuous variable - zmienna ciągła**

The researcher used a continuous variable to measure the participants' response time.

**control unit - jednostka sterująca**

The control unit in the computer system manages the flow of information between different components.

**converging paths - zbiegające się ścieżki**

The control unit in the computer system manages the flow of information between different components.

**copper - miedź**

Copper is a widely used material in computer hardware due to its excellent conductivity.

**copyright holder - właściciel praw autorskich**

The copyright holder of the song filed a lawsuit against the unauthorized use of their work.

**copyright infringement - naruszenie praw autorskich**

We will respond to clear notices of alleged copyright infringement.

**copyright law - prawo autorskie**

It is important to understand the basics of copyright law to protect intellectual property rights.

**copyright protected - chroniony prawem autorskim**

The software program cannot be used without the consent of the copyright protected owner.

**core - rdzeń**

The core of the operating system controls the fundamental functions of the computer.

**core module - podstawowy moduł**

The core module of the application handles data processing and synchronization with external systems.

**correlation - współzależność**

The correlation between student attendance and academic performance was explored in the research study.

**coupler - łącznik**

The optical coupler allows for efficient transmission of signals between devices.

**crucial - istotny**

Proper nutrition is crucial for overall well-being and longevity.

**customize - dostosowywać do potrzeb**

Users can customize the interface of the application according to their preferences.

## D.

**daily operations - codzienne funkcjonowanie/codzienna praca**

The manager oversees the daily operations of the company to ensure smooth functioning.

**dashboard - kokpit menadżerski**

The dashboard provides a comprehensive overview of key metrics and performance indicators.

**data acquisition - gromadzenie/zbieranie danych**

Data acquisition is an essential step in collecting accurate and reliable information.

**data administrator - administrator danych**

The data administrator is responsible for managing database systems and ensuring data integrity.

**data analysis - analiza danych**

The success of the research project relied heavily on accurate data analysis.

**data analytics - analityka danych**

As a data scientist, his expertise in data analytics helped the company uncover valuable insights.

**data as a service - dane jako usługa**

One of the advantages of using the cloud is the availability of data as a service, which provides easy access to information.  
**data availability - dostępność danych**

Ensuring data availability is crucial to maintaining the smooth operation of the company's database system.

**data capture - zbieranie danych**

The new software has improved data capture methods, resulting in more accurate and efficient data collection.

**data distribution - dystrybucja danych**

The data distribution process involves transmitting information to different locations efficiently and securely.

**data format - format danych**

Proper data format is essential for data compatibility and seamless integration between various systems.

**data governance - nadzór nad danymi/ład danych**

Data governance plays a vital role in establishing standardized policies and procedures regarding data management.

**data integration layer - warstwa integracji danych**

The data integration layer acts as a bridge between different databases, allowing them to communicate and share information seamlessly.

**data integrity - integralność danych**

Maintaining data integrity is crucial to ensure the accuracy and reliability of the information stored in the database.

**data loading - ładowanie danych**

The data loading process involves transferring large volumes of data from external sources into the company's database.

**data loss - utrata danych**

The accidental deletion of files led to an unfortunate data loss, causing a temporary setback for the organization.

**data maintenance - utrzymanie danych**

Regular data maintenance is necessary to keep the database running smoothly and prevent any potential issues.

**data management - zarządzanie danymi**

Effective data management involves organizing, storing, and analyzing data to optimize business operations.

**data manipulation - operowanie, manipulowanie danymi**

Skilful data manipulation techniques enable analysts to extract meaningful insights from complex datasets.

**data mart - składnica danych/tematyczna hurtownia danych**

The data mart acts as a specialized repository, focusing on specific subject areas for easier analysis and decision-making.

**data migration - migracja danych**

The successful data migration process ensured a smooth transition from the old system to the new one without any disruptions.

**data mining - eksploracja danych**

Data mining techniques are used to discover patterns and trends in large datasets, leading to valuable business insights.

**data packet - pakiet danych**

The data packet contains the necessary information for transmission across networks and ensures data integrity during transit.

**data processing - przetwarzanie danych**

Employing parallelized algorithms, the system achieved high-performance computing for intricate data processing, enabling swift analysis of extensive datasets.

**data profiling - profilowanie danych**

Utilizing metadata exploration and statistical analysis, the team conducted comprehensive data profiling to unveil irregularities and ensure the integrity of the integrated dataset.

**data recipient - odbiorca danych**

Acting as a designated endpoint, the API seamlessly transferred JSON payloads, serving as a crucial data recipient for real-time updates from external sources.

**data recovery - odzyskiwanie danych**

Leveraging point-in-time recovery techniques and continuous data replication, the system promptly executed a meticulous data recovery plan, mitigating potential data loss during system failures.

**data retrieval - wyszukiwanie danych**

Employing optimized indexing and query optimization strategies, the database engine facilitated sub-millisecond response times for efficient data retrieval.

**data scrubbing - oczyszczanie danych**

Automated scripts systematically executed data quality rules, performing routine data scrubbing to identify and rectify anomalies, maintaining a sanitized and accurate database.

**data security - bezpieczeństwo danych**

Employing end-to-end encryption and biometric access controls, the organization fortified its cybersecurity posture, ensuring robust data security measures against potential threats.

**data steward - opiekun danych**

The appointed data steward meticulously enforced domain integrity constraints and spearheaded the implementation of data governance policies across the enterprise.

**data storage - przechowywanie danych**

Implementing a sharded and replicated storage architecture, the cloud-based solution seamlessly scaled to accommodate the escalating data storage requirements of the dynamic user base.

**data store - magazyn danych**

The NoSQL document-oriented database served as a highly performant and schema-less data store, efficiently handling diverse datasets with dynamic structures.

**data transformation - przekształcanie danych/transformacja danych**

Employing ETL pipelines with schema evolution capabilities, the platform facilitated seamless and versioned data transformation, adapting to evolving business requirements.

**data transmission - transmisja danych**

Deploying lightweight, message-oriented middleware, the system ensured reliable and asynchronous data transmission between distributed components across the network.

**data type - typ danych**

The statically typed programming language enforced strict compile-time checks to ascertain the integrity of data types, minimizing runtime errors.

**data usability - użyteczność danych**

Through the integration of a responsive and intuitive front-end framework, the user interface enhancements significantly improved data usability, fostering a more efficient user experience.

**data validation - sprawdzanie poprawności danych**

Employing regular expressions and checksum algorithms, the system implemented meticulous data validation checks at the input layer to fortify data integrity.

**data value - wartość danych**

The prioritization algorithm assessed the business impact and relevance, determining the strategic data value and guiding resource allocation for analytics initiatives.

**data visualization - wizualizacja danych**

Leveraging GPU-accelerated rendering and interactive charting libraries, the dashboard provided rich and real-time data visualization for comprehensive insights.

**data volume - wolumen danych**

Horizontal scaling and distributed storage solutions were implemented to seamlessly handle the escalating data volume, ensuring sustained performance during peak loads.

**data warehouse - hurtownia danych**

The columnar storage and optimized indexing architecture of the data warehouse expedited complex analytical queries, empowering data scientists with rapid insights.

**database administrator - administrator baz danych**

The skilled database administrator meticulously tuned query execution plans, optimized database indexes, and implemented proactive monitoring for seamless system performance.

**database as a service - baza danych jako usługa**

The company opted for a scalable and cost-effective solution by embracing database as a service, allowing seamless management and maintenance of their data infrastructure.

**database design - projekt bazy danych**

Meticulous database design is essential for optimizing performance; we carefully define tables, relationships, and indexes to ensure efficient data retrieval and storage.

**database designer - projektant bazy danych**

As the database designer, Maria specializes in creating robust and scalable data models, considering factors like normalization and denormalization for optimal performance.

**database engine - silnik bazy danych**

Our application relies on a powerful database engine that efficiently processes complex queries, indexing data for rapid retrieval and ensuring high-performance operations.

**database management system - system zarządzania bazą danych**

The enterprise employs a sophisticated database management system to organize, secure, and streamline data, facilitating seamless interactions with various applications.

**database object - obiekt bazodanowy**

A table, view, or stored procedure is considered a database object; each plays a specific role in structuring and managing data within the database.

**database query language - język zapytań do bazy danych**

SQL, as a widely used database query language, enables developers to interact with the database, retrieving and manipulating data to meet specific application requirements.

**datapath - ścieżka danych**

The optimized datapath in our network architecture ensures efficient data transfer between components, minimizing latency and enhancing overall system performance.

**dataset - zbiór danych**

The machine learning model was trained on a diverse and comprehensive dataset, encompassing a wide range of scenarios to ensure robust performance in real-world applications.

**day-to-day operations - codzienne działania, funkcjonowanie**

The IT team focuses on day-to-day operations, monitoring server health, ensuring data backups, and addressing any issues that may arise to maintain system reliability.

**deadlock - zakleszczenie/blokada wzajemna**

The database system employs deadlock detection mechanisms to identify and resolve situations where multiple transactions are waiting for each other, preventing system gridlock.

**debatable issue - kwestia sporna**

Whether to use a relational or NoSQL database is often a debatable issue among developers, each approach having its strengths and weaknesses.

**debugging - debugowanie**

Developers spend a significant amount of time debugging code, identifying and fixing errors to ensure the smooth functionality of the software.

**decipher** - rozszyfrować, odcyfrować

The encryption algorithm used in our application is designed to be practically impossible to decipher without the appropriate decryption key, ensuring data security.

**decision point** - punkt decyzyjny

The algorithm reaches a crucial decision point during runtime, where it evaluates specific conditions and chooses the optimal path based on the input data.

**decision tree** - drzewo decyzyjne

In machine learning, a decision tree is a powerful model that facilitates decision-making by breaking down complex problems into a series of binary decisions.

**decrypt** - deszyfrować

The security protocol requires authorized users to decrypt sensitive data using a secure key, ensuring that only those with proper permissions can access the information.

**default** - domyślny

The system is designed with a set of default configurations, providing a standardized setup that users can customize based on their specific requirements.

**defect** - wada, defekt

The QA team meticulously identifies and logs any defects found during testing, ensuring that the development team can address and resolve issues promptly.

**delay** - opóźnienie

Network latency can introduce delay in data transfer, so optimizing the network infrastructure is crucial to minimizing delays in communication between system components.

**deliverable** - wynik prac, rezultat

A deliverable is a tangible or intangible good or service produced as a result of a project that is intended to be delivered to a customer (either internal or external)

**detect** - wykrywać

Advanced intrusion detection systems continuously monitor network traffic to swiftly detect and respond to any potential security threats or suspicious activities.

**device** - urządzenie

The Internet of Things (IoT) ecosystem involves numerous interconnected devices, each transmitting data to the central server for real-time monitoring and analysis.

**disable** - wyłączać/blokować

In the event of a security breach, administrators can remotely disable user accounts to prevent unauthorized access and mitigate potential risks to the system.

**disk space** - przestrzeń dyskowa

Regular maintenance tasks include monitoring available disk space to ensure that sufficient storage is available for data storage, application logs, and system backups.

**disparate company sites** - siedziby firmy w różnych lokalizacjach

The multinational corporation faced challenges in integrating data from disparate company sites, requiring a unified data architecture to streamline information flow.

**disparate data** - zróżnicowane dane

Data integration tools were employed to harmonize and consolidate information from various sources, resolving issues arising from disparate data formats.

**display** - wyświetlać

The graphical user interface (GUI) provides an intuitive display of real-time analytics, enabling users to interpret and analyze complex data sets with ease.

**disruption** - zakłócenie

Implementing a redundant network infrastructure minimizes the risk of service disruption, ensuring continuous operations even in the face of hardware failures or network issues.

**distributed databases** - rozproszone bazy danych

Large-scale applications often rely on distributed databases to efficiently manage vast amounts of data across multiple servers, ensuring scalability and fault tolerance.

**domain integrity constraint** - więzy integralności domeny

The database schema enforces a domain integrity constraint, ensuring that data entered into a specific field adheres to predefined criteria, maintaining data accuracy.

**domain name** - nazwa domeny

The company secured a memorable domain name to establish a strong online presence, making it easier for users to locate and access their website.

**drive bay** - kieszeń napędu

The server chassis features multiple drive bays, allowing for flexible storage configurations and easy expansion of the storage capacity as needed.

**driver** - sterownik

The hardware components require the installation of the latest device drivers to ensure compatibility with the operating system and optimal performance.

**dual-core CPU** - dwurdzeniowy procesor

Dual core is a CPU that has two distinct processors that work simultaneously in the same integrated circuit.

**duplicate value** - duplikat wartości

Data validation rules prevent the entry of duplicate values in critical fields, ensuring the uniqueness and accuracy of information within the database.

**dynamic host configuration protocol - protokół DHCP/protokół dynamicznego konfigurowania hostów**

The network infrastructure utilizes Dynamic Host Configuration Protocol (DHCP) to automatically assign IP addresses to devices, simplifying network management.

## E.

**embedded DBMS - system zarządzania wbudowaną bazą danych**

Mobile applications often incorporate lightweight embedded DBMS for efficient data storage and retrieval directly within the application, enhancing responsiveness.

**encrypt - zaszyfrować**

It is crucial to encrypt sensitive data to protect it from unauthorized access and maintain data confidentiality.

**end node - węzeł końcowy**

In a network topology, the user's device, such as a computer or smartphone, is considered an end node that communicates with other devices through the network.

**end user license agreement - umowa licencyjna użytkownika końcowego**

Before using the software, users must agree to the terms outlined in the End User License Agreement (EULA), specifying the conditions under which the software can be used.

**end-user - użytkownik końcowy**

The software interface is designed with the end-user in mind, prioritizing simplicity and functionality to ensure a seamless user experience.

**enhancement - poprawa, zwiększenie**

Regular software updates include feature enhancements and performance optimizations, providing users with improved functionality and a more responsive application.

**enterprise license - licencja dla przedsiębiorców**

To accommodate the growing workforce, the company opted for an enterprise license, allowing unlimited installations across the organization and access to advanced features.

**enterprise license agreement - korporacyjna umowa licencyjna**

The negotiation process involved drafting a comprehensive enterprise license agreement, outlining the terms and conditions for software usage across all company departments.

**entry - wpis**

Each data record contains multiple fields, and the accurate input of information at the point of entry is crucial for maintaining data integrity within the database.

**exclusive rights - wyłączne prawa**

The artist retained exclusive rights to their creative work, limiting its use to specific purposes and preventing unauthorized reproduction or distribution.

**execute - uruchamiać, wykonywać**

When users interact with the application, the software is programmed to execute specific commands, initiating processes and producing the desired output.

**execution path - ścieżka wykonania**

During program execution, the execution path is the sequence of statements and functions that the program follows to accomplish a particular task.

**execution time - czas wykonania**

The optimization of algorithms aims to reduce execution time, ensuring that operations are completed swiftly to enhance the overall efficiency of the software.

**executive information system - system informowania kierownictwa**

An Executive Information System (EIS) provides top-level management with real-time, summarized information, enabling strategic decision-making based on current data.

**expansion card - karta rozszerzenia**

To enhance graphics performance, the desktop computer accommodates an additional GPU through an available expansion card slot on the motherboard.

**expansion slot - gniazdo rozszerzające**

The motherboard features multiple expansion slots, allowing users to add various peripherals, such as graphics cards or network adapters, to customize their system.

**extension - rozszerzenie, zwiększenie**

The file format extension indicates the type of data contained within a file, helping the operating system identify and associate the appropriate application for opening it.

**external hard disk - twardy dysk zewnętrzny**

Users regularly back up important data to an external hard disk to safeguard against data loss, ensuring a secure and portable storage solution.

## F.

**factor - czynnik**

The speed of data transmission is influenced by multiple factors, including network bandwidth, latency, and the efficiency of the communication protocol.

**fair use - dozwolony użytek**

Adhering to the principle of fair use, educators can use copyrighted material for educational purposes without seeking explicit permission, under certain conditions.

**fibre-optic cable - kabel światłowodowy**

The high-speed data network relies on fibre-optic cables for transmitting data over long distances, providing reliable and high-bandwidth connectivity.

**field - pole**

In a database, a field represents a specific data category, such as name or age, defining the type of information that can be stored in that particular column.

**file transfer protocol - protokół FTP/ protokół przesyłania plików**

File Transfer Protocol (FTP) is commonly used to transfer files between computers over a network, providing a standardized method for data exchange.

**footer - stopka**

In typography and word processing, the page footer of a printed page is a section located under the main text, or body.

**fraction - ułamek**

For his maths homework, he's got to convert various fractions to decimals and decimals to fractions.

**fragmented - rozdrobniony/podzielony na części**

Regular disk optimization tasks aim to reduce file fragmentation, ensuring that data is stored in contiguous blocks for efficient retrieval and system performance.

**framework - framework, struktura, szkielet**

The development team adopted the latest software framework to streamline the coding process, leveraging pre-built modules and enhancing overall project efficiency.

**frequency - częstotliwość**

The network monitoring tool provides real-time updates on the frequency of data packets, allowing administrators to identify potential network congestion.

**freelancer - wolny strzelec, pracownik niezależny**

Starting a career as a freelancer in the IT industry can be a great way to gain experience and build a portfolio of work.

**fully-functional - w pełni funkcjonalny**

After rigorous testing and debugging, the software is now fully-functional, offering users a comprehensive suite of features without any significant bugs.

**function key - klawisz funkcyjny**

The specialized keyboard includes function keys that users can customize to execute specific commands or shortcuts within various applications.

## G.

**govern - zarządzać**

The IT department plays a crucial role in establishing and maintaining policies that govern data access, ensuring compliance with privacy and security standards.

**grant permission - udzielać zezwolenia**

System administrators can selectively grant permission to users, specifying access levels to files, directories, or system resources based on their roles.

**graphical user interface (GUI) - graficzny interfejs użytkownika**

The graphical user interface (GUI) of the application is designed with an intuitive layout, allowing users to interact with the software using visual elements.

**graphics card - karta graficzna**

To enhance gaming and graphic-intensive applications, the computer is equipped with a high-performance graphics card capable of rendering complex visuals.

**greatest common divisor - największy wspólny dzielnik**

The greatest common divisor (GCD), also called the greatest common factor, of two numbers is the largest number that divides them both.

**grid - siatka**

Many web pages are based on a grid-view, which means that the page is divided into columns.

**guidelines - wskazówki**

Guidelines are general recommendations that provide a framework for achieving compliance with the Security Policy.

## H.

**halt - zatrzymać, zawiesić działanie**



On Unix-like operating systems, the halt, poweroff, and reboot commands stop, power down, or reboot the system, respectively.  
**hard copy** - [wydruk](#)

Alternatively called a paper copy, a hard copy is any information that is printed on paper.

**hard disk** - [twardy dysk](#)

The primary hard disk stores the operating system, software applications, and user data, providing ample storage capacity for various files.

**hard disk drive** - [napęd twardego dysku](#)

Traditional computers often feature a mechanical hard disk drive for data storage, where data is stored on spinning magnetic disks.

**hard drive slot** - [gniazdo do podłączenia twardego dysku](#)

Modern laptops typically have one or two hard drive slots.

**hardware** - [sprzęt](#)

The IT team is responsible for maintaining and upgrading the company's hardware, including servers, networking equipment, and user devices.

**header** - [nagłówek](#)

The header describes the payload and information to help devices know how the data should be handled.

**headquarters (HQs)** - [siedziba główna](#)

Having two separate headquarters leads to increased costs, which perhaps should not be the case.

**hierarchical data** - [dane hierarchiczne](#)

Database structures often employ a hierarchical data model, organizing information in a tree-like structure with parent and child relationships.

**hint** - [podpowiedź, wskazówka](#)

Hints are options or strategies specified for enforcement by the SQL Server query processor on SELECT, INSERT, UPDATE, or DELETE statements.

**hit list** - [lista wyników wyszukiwania](#)

The cybersecurity team closely monitors the system's hit list, tracking and investigating potential security incidents and vulnerabilities.

**hope that helps** - [mam nadzieję, że to pomoże](#)

That's all I can tell you for now, I hope it helps.

**host bus adapter** - [adapter magistrali hosta](#)

The server is equipped with a high-speed host bus adapter to facilitate fast data transfer between the server and connected storage devices.

**host computer** - [komputer główny/komputer macierzysty](#)

The central server, acting as the host computer, manages network resources and serves as a hub for communication within the network.

**hub** - [koncentrator](#)

In a network topology, a hub serves as a central connection point, allowing devices to communicate with each other in a simple and straightforward manner.

**Human Resources (HR)** - [dział zasobów ludzkich, kadry](#)

In my opinion, one of the bottlenecks is insufficient human resources.

**hypertext** - [hipertekst](#)

The document includes embedded hypertext links, enabling readers to navigate seamlessly between different sections of the content.

**hypotenuse** - [przeciwprostokątna](#)

Hypotenuse is the longest side of any triangle that has one angle of 90°

I.

**if and only if operation** - [operacja równoważności](#)

"if and only if" (shortened as "iff") is a biconditional logical connective between statements, where either both statements are true or both are false.

**in current use** - [obecnie używany](#)

The software version in current use has undergone extensive testing and is stable for deployment across the organization.

**in parallel** - [równoległe](#)

To expedite data processing, multiple tasks are executed in parallel, leveraging the capabilities of multi-core processors for efficient computation.

**inconsistency** - [niespójność](#)

The inconsistency in his work output is a cause for concern.

**incremental** - [narastający, stopniowy, przyrostowy](#)

An incremental approach breaks the software development process down into small, manageable portions known as increments. Each of them builds on the previous version so that improvements are made step by step.

**independent variable** - [zmienna niezależna](#)

The experiment requires controlling the independent variable to obtain accurate results.

**indexed search** - [wyszukiwanie indeksowe](#)

The indexed search feature allows users to quickly find specific information within a database.

**inference** - [wnioskowanie](#)

Machine learning inference is the ability of a system to make predictions from novel data.

**information life-cycle management - zarządzanie cyklem życia informacji**

Information life-cycle management involves organizing and maintaining data from creation to deletion.

**information recipient - odbiorca informacji**

The report was sent to the designated information recipient.

**information retention - przechowywanie informacji**

Legal regulations determine the duration of information retention for businesses.

**inherited rights filter (IRF) - filtr praw dziedzicznych**

Prevent rights from being inherited from being inherited from parent directories using Inherited Rights Filters (IRF).

**initial data - dane początkowe**

Many of the initial data analytics programs have not yielded the results executive management expected.

**initiate - inicjować**

Only registered users can initiate an application package on this platform.

**input - wejście**

Please provide your input on the proposed project.

**input data - dane wejściowe**

The accuracy of the analysis greatly depends on the quality of the input data.

**input device - urządzenie wejścia**

An ergonomic input device can enhance user comfort and productivity.

**input peripheral - wejściowe urządzenie peryferyjne**

The graphic designer used input peripherals like graphics tablets and styluses to create digital artwork.

**intangible assets - aktywa niematerialne, wartości niematerialne i prawne**

The company's intangible assets, such as patents and trademarks, contribute significantly to its overall value.

**intangible benefit - niewymierna korzyść**

One intangible benefit of regular exercise is improved mental well-being.

**integer - liczba całkowita**

Fractions are not allowed, only positive integers may be used at any stage of the calculation.

**integrity - integralność, spójność**

Data integrity is the accuracy, completeness, and quality of data over its entire life-cycle.

**integrity scanning - sprawdzanie integralności**

File integrity scanning refers to the process that compares a file's fingerprints to figure out if it has changed.

**intellectual property - własność intelektualna**

Companies invest in protecting their intellectual property through copyrights and patents.

**interchangeable - wymienny/zamienny**

The parts of this machine are interchangeable, allowing for easy replacement if needed.

**interface - interfejs**

The user interface of this software is intuitively designed for ease of use.

**internal hard disk - twardy dysk wewnętrzny**

This laptop comes with a large internal hard disk for storing files and data.

**internet protocol - protokół internetowy**

Internet protocol ensures seamless communication between devices connected to a network.

**internet service provider - dostawca usług internetowych**

Choose a reliable internet service provider for fast and stable internet connectivity.

**interrelated - wzajemnie powiązany**

The interrelated concepts of biology and chemistry provide a solid foundation for understanding biochemistry.

**interrogation - zapytanie**

He initiated the interrogation of a database file to produce a list of customers in Gdańsk.

**invalid data - nieprawidłowe dane**

The analysis produced invalid data, leading to skewed results and an erroneous conclusion.

**inventory management - zarządzanie zapasami**

Efficient inventory management is essential for a successful retail business, ensuring that items are always in stock and ready to be sold.

**IOT, Internet of Things - internet rzeczy, internet przedmiotów**

Cloud applications will be used by billions of devices of all kinds, all connected to the Internet of Things.

**IP spoofing - fałszowanie adresu IP**

The act of IP spoofing involves disguising one's true IP address in order to deceive or mask their identity online.

**iterative - cząstotliwy, iteracyjny**

Recursion is a more powerful algorithm than iterative computation.

**IT infrastructure - infrastruktura informatyczna**

A robust IT infrastructure is critical for the smooth operation of a modern business, encompassing hardware, software, networks, and data management systems.

## J.

**job accounting journal - dziennik rozliczania zadań**

If you have set up job accounting, the system will write journal entries to the job accounting journal when the accounting code is changed or when a job ends.

**job number** - numer zadania

Remove a specific job usually specified by job number from the printer queue.

**job scheduling** - szeregowanie zadań

Job scheduling is the process where different tasks get executed at pre-determined time or when the right event happens.

## K.

**kernel** - jądro

We can further reduce data duplication done by the kernel if the underlying network interface card supports gather operations.

**key** - klucz, klawisz

Press any key to continue.

**keyword driven testing** - testowanie sterowane słowami kluczowymi

Keyword-driven testing is an effective approach for automating test scripts, allowing testers to use keywords to describe the expected behavior of the software system.

## L.

**label** - oznaczyć (coś za pomocą czegoś)/opatrzyć (coś) etykietą (w postaci czegoś)

The label on the medicine bottle provides crucial information about the dosage, potential side effects, and storage requirements.

**lag time** - czas martwy (okres między dwoma zdarzeniami lub stanami)

Other systems may provide archival quality data but perhaps with a variable lag time.

**language compiler** - kompilator języka

A language compiler translates human-readable code into machine-executable instructions.

**language processor** - procesor języka

A language processor performs various tasks, such as lexical analysis, syntax parsing, and semantic analysis, to process source code written in a specific programming language.

**last-in first-out (LIFO)** - ostatni na wejściu, pierwszy na wyjściu

LIFO is an accounting method that assumes that sellable assets produced or acquired last will be the first to sell.

**latency** - czas oczekiwania, opóźnienie

Network latency refers to the delay in data transmission over a network due to factors such as distance, congestion, or processing time.

**launch** - uruchamiać

The company plans to launch its new product line during the highly anticipated industry trade show next month.

**layer** - warstwa

The OSI model consists of seven layers, each responsible for specific functions and protocols in computer networking.

**lay off** - zwalniać pracowników

The company is going to lay off hundreds of people when business slows after Christmas.

**learning process** - proces uczenia się

The continuous improvement of teaching methods is a fundamental aspect of an effective learning process.

**legal value** - dozwolona wartość

Signed contracts hold legal value and can be used as evidence in case of disputes or breaches.

**license fee** - opłata licencyjna

The license fee for using the proprietary software must be paid annually to maintain usage rights and access to updates.

**licensee** - licencjobiorca

As a licensee, you have been granted the right to use the software under specific conditions outlined in the licensing agreement.

**licensor** - licencjodawca

The licensor of the patented technology holds the authority to grant or deny licenses to third parties.

**limitation of liability** - ograniczenie odpowiedzialności

The limitation of liability clause in the contract specifies the extent to which a party's financial responsibility is limited in case of damages or losses.

**limited license** - ograniczona licencja

With a limited license, users have restricted rights and permissions to use the software, often with limitations on features or duration.

**linked list** - lista wiązana

A linked list consists of a node structure that contains two members: the data it is holding and a pointer to another node structure.

**logical address** - adres logiczny

A logical address serves as an identifier for a network device, enabling communication and routing within a network infrastructure.

**logical database model** - logiczny model bazy danych

The logical database model provides a structured representation of the organization's data which allows for efficient storage and retrieval.

## M.

**maintain** - utrzymywać

It is essential to maintain hardware and software systems regularly to ensure their optimal performance.

**management information system - system informacji zarządczej**

**many-core central processing unit - procesor wielordzeniowy**

A management information system integrates data from various sources and provides decision-makers with valuable insights to support strategic planning.

**master server - serwer główny**

The master server coordinates and controls multiple slave servers in a distributed computing environment, ensuring efficient resource allocation.

**matching - dopasowanie**

Pattern matching is the checking and locating of specific sequences of some pattern among raw data or a sequence of tokens.

**matrix (pl. matrices) - macierz**

He found a better solution to this problem, using density matrices and superoperators instead of probability distributions.

**memory card - karta pamięci**

Inserting a memory card into the device expanded the storage capacity, allowing for the seamless capture and storage of high-resolution photos.

**motherboard - płyta główna**

The motherboard acts as the central circuit board that connects all the components of a computer, facilitating communication and data transfer between them.

**multiple concurrent users - wielu równoczesnych użytkowników**

Multiple concurrent users can access the system simultaneously, resulting in increased collaboration and productivity.

## N.

**native - własny, bezpośredni**

Native software of data-formats are those that were designed to run on a particular operating system.

**native code compiler - kompilator kodu macierzystego**

Native code compiler generates code for the same Platform on which it runs.

**need analysis - analiza potrzeb**

Need analysis or requirement analysis is a crucial phase of the software development cycle (SDLC) as it allows to define user needs and expectations.

**network - sieć**

The network infrastructure provides a framework for connecting computers and devices, facilitating communication and data sharing across an organization.

**network access layer - warstwa dostępu do sieci/warstwa fizyczna**

The network access layer plays a crucial role in establishing and managing connections between devices in a computer network.

**network access point - punkt dostępu do sieci**

Network access points act as gateways that provide connectivity between different networks, allowing for seamless communication across different domains.

**network adapter - adapter sieciowy**

A network adapter enables devices to connect to a network, providing the necessary protocols and interfaces for data transmission.

**network architecture - architektura sieci**

A well-designed network architecture ensures efficient data flow, scalability, and security in an organization's computer network.

**network card - karta sieciowa**

The network card allows devices to connect to a network, enabling communication and data transfer between them.

**network operating system - sieciowy system operacyjny**

A network operating system provides the necessary tools and services to manage and control network resources effectively.

**network protocol - protokół sieciowy**

Network protocols define the rules and conventions for data exchange and communication between devices in a network.

**network resources - zasoby sieciowe**

Network resources, such as printers and shared drives, are available for users to access and utilize for their work.

**network server - serwer sieciowy**

A network server acts as a centralized hub, providing services and resources to connected clients in a network.

**network service - usługa sieciowa**

Network services are programs or processes running on a server that provide specific functionalities, such as file sharing or email.

**network standard - standard sieciowy**

Network standards establish guidelines and protocols for hardware and software compatibility, ensuring seamless communication between devices from different manufacturers.

**nickname - pseudonim**

My nickname at work is "the guru" because I'm known for my expertise in the field.

**node - węzeł**

The node we installed in the network successfully enhanced its performance.

**non-volatile - nieulotny**

The non-volatile memory in my computer ensures that no data is lost during a power outage.

**non-volatile memory - pamięć nieulotna**

Our company utilizes a state-of-the-art non-volatile memory solution in our storage devices.

**null value - wartość pusta**

Extension methods can be made to check for null values, thereby freeing code that uses them from ever having to do so.

**O.**

**objective - cel**

Data must always be retained with an objective and in relation to a specific person.

**obstacle - przeszkoda**

This difference is a serious obstacle in building a common identity.

**offload - odciążać**

To improve the server's efficiency, we offload some of the processing tasks to specialized hardware.

**on the same page - zgadzać się**

Everyone in the office has to be on the same page about what our top priorities are.

**ongoing - trwający**

As regards simplification, this is an ongoing process which is being constantly enhanced.

**online banking - bankowość internetowa**

His expertise includes e-commerce, online banking, online gaming, and large-scale real-time transaction systems.

**open-plan office, open-space office - otwarta przestrzeń biurowa**

If you have to work in an open-plan office like this, your productivity is greatly reduced.

**open source software license - licencja na oprogramowanie open source**

The open source software license allows developers to modify and distribute the code freely.

**open-source platform - platforma open source**

Our application is built on an open-source platform, which provides us with immense flexibility and adaptability.

**operate - obsługiwać**

We operate multiple data centers worldwide to ensure seamless service availability.

**operating model - model operacyjny**

Our global organization adopted a decentralized operating model to better cater to regional markets.

**operating system - system operacyjny**

The latest version of the operating system introduces groundbreaking features and enhanced security measures.

**operating time - czas działania**

The modularization software and interface with CAD can reduce operating time.

**optimize - optymalizować**

This is an actual model where we can be asked to optimize what happens.

**ordering party - zamawiający**

As the ordering party, you are entitled to specify your requirements and preferences for the product.

**original equipment manufacturer - producent oryginalnego wyposażenia**

We have partnered with a renowned original equipment manufacturer to ensure the quality of our products.

**original equipment manufacturer license - licencja OEM**

The original equipment manufacturer license grants us the right to use their branding and intellectual property.

**orphan lock - zbędne blokady**

We may just need to restart SQL Server and see if the orphan locks disappear.

**outcome - wynik, rezultat**

The success of the project will be measured by the outcome it delivers to the stakeholders.

**outcome variable - zmienna określająca punkt końcowy badania, zmienna wynikowa**

The outcome variable we are monitoring will provide valuable insights into the effectiveness of our marketing campaign.

**outlier - wartość skrajna, dana o nietypowej wartości**

The unusually high sales figure was considered an outlier among the average monthly revenue.

**out of date - nieaktualny**

We use out of date systems that are unfair and create random results.

**out of service time - czas wyłączenia z eksploatacji**

The message says it's out of service time and we cannot use the system until tomorrow.

**outage - przestój**

This outage lasted approximately 5 hours and occurred due to an issue with our backend account system.

**outdated - przestarzały**

It seems that we've been relying on faulty or at the very least, outdated data.

**outperform - przewyższać, osiągać lepsze wyniki**

The company has consistently outperformed its rivals this season.

**output - wyjście**

The output of our research project revealed groundbreaking discoveries in the field of medicine.

**output file - plik wyjściowy**

After running the simulation, the output file contained all the necessary data for further analysis.

**output peripheral - wyjściowe urządzenie peryferyjne**

The printer serves as an output peripheral, allowing us to obtain physical copies of digital documents.

**overload - przeciążyć, przeładować**

The system was overloaded and crashed badly.

**overheads - koszty stałe, koszty ogólne, narzut danych**

This saves you bandwidth and overhead because your server can tell Googlebot that a page hasn't changed since the last time it was crawled.

**overtime - nadgodziny, dodatkowy czas**

Employees can receive additional pay or time off for overtime.

**overview - przegląd, ogólny zarys**

The report provides an overview of ecommerce activity on your site.

**ownership rights - prawa**

The company had to defend its ownership rights over the intellectual property it developed.

## P.

**pace - tempo**

It's all hidden in this code, and it's starting to be understood at breakneck pace.

**packet switching - komunikacja pakietów**

Packet switching allows for more efficient transfer of data over a network by breaking data into small packets.

**parenthesis - nawias**

Some tokens such as parentheses do not really have values, and so the evaluator function for these can return nothing: only the type is needed.

**parsing - analiza składniowa**

The software uses parsing techniques to analyze and understand complex sentences in different languages.

**partition - podział**

The partition on the hard drive separates the operating system from the user's personal files.

**part-time job [full-time job] - praca w niepełnym wymiarze godzin [praca na pełny etat]**

These pages will guide you in the right direction whether you want a full- or a part-time job or just to work during your holidays.

**pass sth on - przekazać**

Could you pass this info on to the rest of the team?

**path testing - testowanie ścieżek**

Path testing is an effective method for ensuring that all possible paths in a software program are tested.

**pay-per-use license - model licencjonowania oparty na opłacie za każdorazowe użycie oprogramowania**

The pay-per-use license model allows users to only pay for the software they actually use.

**peer - rówieśnik, równy**

Peer-to-peer networking is a distributed application architecture that partitions tasks or workloads between peers.

**pension - emerytura**

We all know that there is no such thing as an ideal model for pension systems.

**people person - osoba towarzyska**

Linus Torvalds openly admits that he is not a people person.

**performance - wydajność**

The performance of the new graphics card significantly improved the gaming experience.

**performance tuning - dostrajanie wydajności**

Performance tuning is essential to optimize the speed and efficiency of a computer system.

**peripheral - urządzenie peryferyjne**

The printer is connected to the computer through a peripheral device, such as a USB port.

**permit - zezwalać, pozwolenie**

The permit granted access to the restricted area for authorized personnel.

**personalised - spersonalizowany**

We're taking a real personalised approach to our user engagement.

**physical database model - fizyczny model bazy danych**

The physical database model represents the organization and structure of the actual database.

**physical network - sieć fizyczna**

The physical network infrastructure consists of routers, switches, and cables.

**point of presence - punkt przyłączenia**

The company set up a point of presence in the city to improve internet connectivity for local customers.

**pointer - wskaźnik**

The pointer on the screen can be easily controlled using a mouse or a touchpad.

**policy - zasady/polityka**

The company implemented a strict policy regarding the use of personal devices during working hours.

**portable - przenośny**

The portable laptop allows users to carry their work with them wherever they go.

**pose (e.g. a threat, problem) - stanowić, np. zagrożenie, problem**

However, all these numerous projects pose a problem at the moment.

**position = post - stanowisko pracy**

What position do you see yourself in this company in five years time?

**postpone - przełożyć na później**

We are in no position to postpone dealing with this issue.

power connector - **złącze zasilania**

The power connector of the computer fits securely into the back of the tower.

power cord - **kabel zasilający**

The power cord of the monitor is too short, so I had to use an extension cord.

power source - **źródło energii**

The power source of the laptop can be either a battery or an AC adapter.

power supply unit - **zasilacz**

The power supply unit ensures that the computer receives a stable and consistent power supply.

PR (public relations) - **kreowanie wizerunku firmy**

Believe you me: a single one-liner can be worth millions in good PR.

pre-installed - **zainstalowany fabrycznie**

The smartphone I purchased had a wide range of pre-installed applications and software.

premises of a company - **teren firmy**

The company is relocated to new premises.

prevent - **zapobiegać, uniemożliwić**

A lack of disc space might prevent you from installing new software.

pride yourself on sth - **szczyścić się czymś**

He prides himself on his loyalty to his friends.

primary key - **klucz główny**

Primary key is a unique identifier, such as a driver's license number, telephone number with area code or vehicle identification number (VIN).

primary storage unit - **podstawowa jednostka pamięci**

A primary storage device is a medium that holds memory for short periods of time while a computer is running.

principle - **zasada**

The principle of 'equal pay for equal work in the same place' must be guaranteed.

The principle of the new software system is to increase efficiency and accuracy.

printed circuit board - **płytką drukowaną**

With the advancement of technology, printed circuit boards have become increasingly smaller and more efficient.

prioritize - **nadawać priorytet**

As a project manager, it is important to prioritize tasks according to their level of importance.

problem-solving - **rozwiązywanie problemów, umiejętność radzenia sobie w trudnych sytuacjach**

The programme offers training in basic problem-solving strategies and is suitable for all levels.

procedure - **procedura**

It is crucial to follow the proper procedure when dealing with sensitive information.

proceedings - **postępowanie, prace, obrady**

The bank threatened to start legal proceedings against our company.

process - **przetwarzać/proces**

To successfully complete this task, it is necessary to carefully process each step.

productive - **produktywny, wydajny**

Setting specific goals and creating a schedule can lead to a more productive day.

professional [unprofessional] - **profesjonalny [nieprofesjonalny]**

In order to maintain a professional demeanor, it is important to communicate clearly and effectively.

proficient - **biegły (przymiotnik)**

She is proficient in two languages. He's proficient at programming.

profile - **profil**

Please fill out your professional profile on our company website for potential job opportunities.

profit margin - **marża zysku**

With greatly reduced costs we were able to increase our profit margin.

profitability - **zyskowość**

The company's profitability has increased significantly since implementing the new software.

programming language - **język programowania**

Python is known as a high-level programming language compared to other coding languages.

prohibitive - **wygórowany, wyśrubowany, ogromny (np. koszt)**

The system they created was too cost prohibitive and it was abandoned shortly.

project manager - **kierownik projektu**

As a project manager, it is important to delegate tasks and oversee the progress of your team members.

prompt (character) - **znak zgłoszenia**

A programming prompt is a specific request the software makes in order to obtain information from the end user.

proposal - **propozycja, oferta**

Better proposals are always welcomed, so send us your business proposals and we'll look into it.

pros and cons - **za i przeciw**

When deciding between two options, it is important to consider the pros and cons of each.

protocol - **protokół**

Our organization follows a strict protocol when handling confidential client information.

provide - **dostarczać, zapewniać**

It is our responsibility to provide accurate and up-to-date training to our employees.

provide information - **dostarczać informacji**

Can you please provide more information about the new IT system we will be implementing?

public domain software - **oprogramowanie ogólnodostępne**

Many free online platforms offer access to public domain software.

publisher - **wydawca**

Our company works with a reputable publisher to release our latest tech book.

purchase - **nabyć, zakupić**

Prior to purchasing any software, it is important to thoroughly review its features and compatibility.

pursue - **kontynuować, realizować, dążyć do**

His goal was to pursue possible solutions that could improve this application.

pushed for time - **pod presją czasu**

As we are pushed for time, let's focus on completing the most crucial tasks first.

put sth / sb on hold - **wstrzymać coś / poprosić kogoś o zaczekanie**

I am going to put you on hold while I transfer you to our IT department for technical support.

put sth by - **odkładać coś, oszczędzać**

You should always put some money by for hard times.

put sth down - **wpłacać zaliczkę**

I managed to put the deposit for the house down.

put sth off - **przełożyć na później**

As the manager was out of town, we had to put the meeting off.

put your heads together - **zastanowić się wspólnie**

Let's put our heads together and brainstorm ideas for improving the company's IT infrastructure.

put yourself in sb's shoes - **postawić się na czyimś miejscu**

Can you please put yourself in my shoes and understand the complexity of this software project I'm working on?

## Q.

quad-core CPU - **czterordzeniowy procesor**

This computer is equipped with a quad-core CPU, allowing for faster processing speeds.

qualification - **kwalifikacja**

As a developer, it is important to constantly update and improve your qualifications to stay competitive in the industry.

quality - **jakość**

Quality assurance is crucial in any software development project to ensure a successful end product.

quantitative - **ilościowy (e.g. quantitative research)**

The data collected from the survey will be analyzed quantitatively to determine trends and patterns.

query - **zapytanie**

Can you run a query on the database to retrieve the most recent customer information?

query database - **odpytywać bazę danych**

The SQL query language allows for easy manipulation and retrieval of data from databases.

query language - **język zapytań**

As a software engineer, familiarity with various query languages such as SQL and NoSQL is essential.

query workload - **obciążenie wskutek wykonywania zapytania**

The system experienced issues due to a high query workload, resulting in slow response times.

questionable - **niepewny, wątpliwy, dyskusyjny**

The validity of the data collected from the survey was questionable due to a low response rate.

questionnaire - **kwestionariusz**

Participants are asked to complete a detailed questionnaire regarding their software usage habits.

quit - **zrezygnować**

Do you really want to quit your job?

## R.

random - **losowy/przypadkowy**

The randomization feature in the survey tool ensures that each participant receives a unique set of questions.

random access memory - **pamięć o dostępie bezpośrednim, pamięć RAM**

Random access memory is essential for a computer to run multiple programs simultaneously.

range - **zakres, asortyment**

The salary range for software engineers varies depending on experience and location.

rate - **klasyfikować/oceniać**

The success rate of the software update was lower than expected due to unforeseen bugs.

raw data - **surowe dane**

The raw data collected from the sensors will be analyzed for any abnormalities.

read/write head - **głowica zapisu i odczytu**

The read/write head of a hard drive is responsible for reading and writing data onto the disks.

read-only memory - **pamięć tylko do odczytu, pamięć stała, pamięć ROM**



	Read-only memory stores important boot-up instructions and cannot be modified.
<b>real-life data - dane rzeczywiste</b>	
	It is important to use real-life data when testing a program to ensure accurate results.
<b>real-time streaming - dostarczanie danych czasu rzeczywistego</b>	
	The app uses real-time streaming to deliver immediate updates on stock market data.
<b>real-time traffic - ruch sieciowy w czasie rzeczywistym</b>	
	Our navigation system has a feature that shows real-time traffic updates, helping drivers avoid congested roads.
<b>receiver host - host odbiorcy</b>	
	The receiver host of the email server has been updated for better security measures.
<b>receiving device - urządzenie odbiorcze</b>	
	Our company provides a variety of receiving devices for our customers to choose from.
<b>record - rekord, zapis</b>	
	The researcher needs more time to record the data accurately before presenting the findings.
<b>record count - liczba rekordów</b>	
	The record count for our quarterly sales has reached an all-time high.
<b>recover - powracać do zdrowia, wychodzić z kryzysu</b>	
	It takes time to recover from a major economic downturn, but we are slowly rebuilding.
<b>redundancy - nadmiarowość, redundancja</b>	
	The system has a built-in redundancy feature to prevent any data loss in case of a power outage.
<b>reference - odniesienie, nawiązanie</b>	
	This book serves as a reference for IT professionals seeking to update their skills.
<b>refresh - odświeżać</b>	
	It is important to regularly refresh and update your knowledge in the ever-changing field of technology.
<b>register - rejestr</b>	
	All employees must register their attendance using the biometric system.
<b>registration code - kod rejestracyjny</b>	
	Please enter your registration code to access the online course materials.
<b>remote access - zdalny dostęp</b>	
	With remote access, employees can work from home without compromising on productivity.
<b>remote client - zdalny klient</b>	
	Our team works closely with remote clients to ensure efficient communication and project completion.
<b>remote connection - połączenie zdalne</b>	
	The remote connection to the database was established successfully.
<b>repository - repozytorium</b>	
	The repository of research articles is constantly updated to provide the latest information.
<b>reprioritize - dokonać ponownej priorytetyzacji/uszeregować ponownie pod względem</b>	
	We need to reprioritize our tasks to meet the strict deadline.
<b>request - żądanie</b>	
	The request for a budget increase was denied due to insufficient justification.
<b>requirements analysis - analiza wymagań</b>	
	Requirements analysis is a crucial step in developing a successful software application.
<b>research and development - badania i rozwój</b>	
	Our company invests heavily in research and development to stay ahead of competition.
<b>resolution - postanowienie/uchwała</b>	
	The screen resolution of the new laptop is great for watching movies.
<b>resolve - rozkładać</b>	
	The IT department is working tirelessly to resolve the technical issues with the network.
<b>resource path - ścieżka do zasobów</b>	
	When working on a software project, it's crucial to define a clear resource path to ensure efficient allocation of resources and avoid bottlenecks.
<b>resource sharing - współdzielenie zasobów</b>	
	Resource sharing among team members fosters collaboration and accelerates project development by utilizing collective expertise.
<b>resources - zasoby</b>	
	In IT, effective utilization of available resources is essential for achieving optimal system performance and meeting project deadlines.
<b>response - odpowiedź</b>	
	A prompt and accurate response to system issues is vital to maintain a seamless user experience and prevent disruptions.
<b>retain - zatrzymać, zachować</b>	
<b>retention - zatrzymanie, zachowanie</b>	
	To enhance learning, it's important to employ strategies that promote information retention , such as regular reviews and hands-on practice.
<b>retrieval of information - wyszukiwanie informacji</b>	
	The retrieval of information from databases is a critical aspect of data management, enabling quick and accurate access to stored data.
<b>retrieve - odzyskać, odnaleźć</b>	

Users can easily retrieve stored files and documents by following the specified steps in the system.

**return on investment - zwrot z inwestycji**

Evaluating the return on investment is necessary to determine the success and profitability of a technology implementation.

**rewrite - ponownie zapisać**

Sometimes, it's necessary to rewrite code for better performance or to accommodate new functionalities in a software application.

**rigid - niezmienny, sztywny**

Avoiding rigid project structures allows for flexibility and adaptation to changing requirements during the development process.

**risk analysis - analiza ryzyka**

Conducting a thorough risk analysis helps identify potential challenges and uncertainties in a project, enabling proactive management.

**risk avoidance - unikanie ryzyka**

Risk avoidance involves taking measures to eliminate or minimize potential risks before they can impact the project.

**risk identification - identyfikacja ryzyka**

The systematic risk identification process involves recognizing and documenting potential risks that may arise during the project lifecycle.

**risk mitigation - mitygacja ryzyka/zmniejszenie ryzyka/ograniczenie ryzyka**

Implementing risk mitigation strategies is essential to minimize the impact of identified risks on the project's success.

**risk-sensitive - wrażliwy na ryzyko**

A risk-sensitive approach involves carefully considering potential risks and incorporating preventive measures throughout the project.

**risk-tolerant - odporny na ryzyko**

Some projects may be more risk-tolerant, allowing for a more adventurous approach in dealing with uncertainties.

**room for improvement - obszar do poprawy**

Continuous evaluation and adaptation are essential for finding room for improvement in project management and development processes.

**router - ruter**

The router directs data traffic between different devices within a network, ensuring efficient communication.

**row - wiersz**

Data in a database is organized in rows and columns, where each entry in a table represents a unique row.

**run a query - uruchomić zapytanie**

To retrieve specific information from a database, you can run a query to filter and display the relevant data.

**run in parallel - uruchamiać równolegle**

For tasks that require speed and efficiency, it's beneficial to run in parallel, allowing multiple processes to execute simultaneously.

**running time - czas wykonywania**

Evaluating the running time of algorithms is crucial in determining their efficiency and performance in real-world applications.

## S.

**sabbatical (leave) - urlop dziekański/naukowy**

I'm planning to take a sabbatical leave next year to travel and recharge before diving back into my coding career.

**salary - pensja**

After several years of working in the field, I was finally offered a competitive salary that reflected my extensive skillset.

**scalable - skalowalny**

The software's design is highly scalable, allowing for future expansions and growth in usage.

**scope - zasięg (sieci), zakres projektu**

As a programmer, it's important to establish the scope of each project in order to have a clear understanding of what needs to be achieved.

**screenshot - zrzut ekranu**

Please send me a screenshot of the error message so I can better assist you with troubleshooting.

**search engine - wyszukiwarka**

Google is by far the most popular search engine used worldwide.

**search result - wynik wyszukiwania**

After hours of searching, I finally found the perfect gift on the fifth page of the search results.

**self-evident - oczywisty, ewidentny**

In regards to computer programming, basic knowledge of algorithms would be considered self-evident.

**semicolon - średnik**

When writing code, remember to properly use a semicolon to end statements.

**semi-structured data - dane częściowo ustrukturyzowane**

Machine learning heavily relies on the manipulation and analysis of semi-structured data.

**sender host - host nadawcy**

The encryption software verifies the authenticity of the sender host before allowing access to the network.

**sending device - urządzenie nadawcze**

Our team is currently working on developing new sending devices that are more efficient and user-friendly.

**server - serwer**

The server crashed due to a sudden increase in traffic from the sales promotion.

**service provider - dostawca usługi**

Our company recently switched to a new service provider in hopes of improving internet connectivity.

**setback - komplikacja, problem**

Despite facing many setbacks during development, our team persevered and successfully launched the app on schedule.

**settle on sth - zdecydować się na coś**

After much discussion and deliberation, we've finally decided to settle on this particular software solution.

**shopping cart - koszyk na zakupy**

I added all the items I want to purchase to my shopping cart and am now ready to check out.

**single core CPU - jednordzeniowy procesor**

The latest smartphone boasts an impressive quad-core CPU, making it one of the fastest devices on the market.

**single file system - pojedynczy system plików**

To improve efficiency, our team implemented a single file system that allows for easy access and organization.

**significant - znaczący**

The recent data breach was significant and has caused many companies to question their cybersecurity measures.

**skill - umiejętność**

Knowing multiple programming languages is a valuable skill in the world of software engineering.

**slash - ukośnik**

The developer used a slash in the code to indicate a line break.

**slave server - serwer zapasowy**

In case the primary server fails, the slave server will take over and ensure continuous operation of the website.

**slot - gniazdo**

The database has reached its maximum capacity and there are no available slots for new entries.

**socket - gniazdo**

The client was unable to connect to the server due to a socket error.

**software - oprogramowanie**

My company recently implemented new software that has improved efficiency by 30%.

**source - źródło**

The source code for the application is available on GitHub for anyone to view and contribute to.

**sound card - karta dźwiękowa**

To improve audio quality, I upgraded my sound card to a higher-end model.

**source address - adres źródłowy**

The VPN server uses a dynamic IP allocation scheme, meaning each time you connect you receive a different source address.

**spreadsheet - arkusz kalkulacyjny**

The data analyst created a detailed spreadsheet to track sales numbers over the past year.

**stack - stos**

During the debugging process, the programmer found an issue in the stack that was causing the program to crash.

**stake in the business - udział w interesie**

The successful start-up offered their employees a stake in the business as part of their compensation package.

**stakeholder - interesariusz**

The stakeholders were invited to participate in a roundtable discussion about the new project.

**standstill - zastój**

Negotiations between the two companies have reached a standstill due to differing opinions on the terms.

**start from scratch - zacząć od zera**

After the hard drive crashed, I had to start from scratch and reinstall all of my software.

**storage area - obszar składowania**

The storage area for our servers is equipped with fire suppression systems to prevent damage in case of a fire.

**storage capacity - pojemność pamięci**

The new laptop has a large storage capacity, allowing me to store all of my files without worry.

**storage medium - nośnik danych**

The flash drive is a popular storage medium for transferring large files quickly.

**storage resources - zasoby pamięci**

With the increasing demand for cloud computing, many companies are investing in more storage resources.

**storage unit - jednostka pamięci**

I needed additional storage units for my digital media collection, so I purchased an external hard drive.

**store - przechowywać, składować**

Async Storage is a good choice for storing data that does not need encryption.

**stored data - przechowywane, składowane dane**

The stored data from previous website visitors can help us personalize their browsing experience.

**stream data - strumieniować dane**

We need to improve our ability to stream data in real-time for more efficient data analysis.

**structured data - dane ustrukturyzowane**

Our team is working on organizing the structured data collected from social media channels.

**structured query language (SQL) - strukturalny język zapytań (SQL)**

SQL is a commonly used language in managing and manipulating large datasets.

**subdomain - poddomena/podobszar**

Our company recently added a new subdomain to expand our online services.

**subset - podzbiór**

This database only contains a subset of the company's overall data, but still serves as a valuable resource.

**subsidiary - drugorzędny, pomocniczy, spółka zależna**

	The subsidiary company handles all customer service inquiries for our main brand.
<b>sufficient</b> - <b>wystarczający</b>	
	Adequate training is sufficient to enable employees to use our new software effectively.
<b>suite</b> - <b>pakiet</b>	
	The suite of applications we developed has been highly praised for its user-friendly interface.
<b>supervise</b> - <b>nadzorować</b>	
	As a project manager, it's important for me to supervise the development team closely.
<b>supply</b> - <b>dostarczyć, zaopatrzyć</b>	
	The supply of computer parts has been delayed due to shipping disruptions.
<b>switch</b> - <b>przełącznik, przełączać</b>	
	We will need to switch to a more robust cloud storage solution as our data continues to grow.
<b>SWOT analysis (strengths, weaknesses, opportunities, threats)</b> - <b>analiza SWOT (mocne strony, słabe strony, możliwości, zagrożenia)</b>	
	A SWOT analysis of our company revealed potential risks and opportunities in the market.
<b>syntax</b> - <b>składnia</b>	
	Knowledge of syntax is essential for writing efficient code in any programming language.
<b>system design</b> - <b>projekt systemu</b>	
	Our system design focuses on scalability and security to accommodate future growth.
<b>system memory</b> - <b>pamięć systemowa</b>	
	To improve performance, we upgraded our system memory to a higher capacity.
<b>system requirement</b> - <b>wymaganie systemowe</b>	
	Meeting system requirements is crucial for the successful implementation of new software.
<b>synergy</b> - <b>synergia, efekt synergiczny (współdziałania różnych czynników)</b>	
	The synergy between the IT and marketing departments has led to innovative solutions for our clients.

## T.

<b>tabular database</b> - <b>tabelaryczna baza danych</b>	
	A tabular database allows for easy organization and access of large amounts of data.
<b>tackle</b> - <b>uporać się z czymś, stawiać czoło (problemom)</b>	
	It looks like nobody knows how to tackle the problem of inflation.
<b>take (the) credit for sth</b> - <b>przypisywać sobie zasługę</b>	
	It was Susan's idea, but her boss took all the credit for it.
<b>take sth into account</b> - <b>wziąć coś pod uwagę, uwzględnić coś</b>	
	Various factors need to be taken into account before we embark on this project.
<b>take sth personally</b> - <b>brać coś do siebie</b>	
	I do my best not to take any constructive criticism personally, as it helps me improve my coding skills.
<b>tangible assets</b> - <b>aktywa rzeczowe</b>	
	Tangible assets such as servers and laptops are necessary for a successful IT company.
<b>tangible benefit</b> - <b>wymierna korzyść</b>	
	Offering flexible work hours can be a tangible benefit for employees in the technology industry.
<b>target</b> - <b>cel, grupa docelowa</b>	
	Our company sets specific targets for each development project to ensure timely delivery.
<b>target language</b> - <b>język docelowy</b>	
	Fluent communication in the target language is essential for working with international clients in the IT industry.
<b>tax requirement</b> - <b>wymóg podatkowy</b>	
	Compliance with tax requirements is crucial for any software development business.
<b>T-connector</b> - <b>trójnik</b>	
	The T-connector is used to connect multiple devices to a single network port.
<b>temporary data store</b> - <b>tymczasowe miejsce przechowywania danych</b>	
	Temporary data stores are used to store and process temporary information during program execution.
<b>tension</b> - <b>napięcie</b>	
	There is often tension between the design team and the development team in software projects.
<b>terms</b> - <b>warunki (np. umowy)</b>	
	Familiarity with technical terms is necessary when working in the IT field.
<b>think tank</b> - <b>grupa ekspertów</b>	
	Our company regularly consults with a think tank to determine future trends in technology.
<b>timeline</b> - <b>oś czasowa, porządek chronologiczny</b>	
	We have set a realistic timeline for completing our latest software release.
<b>to-do list</b> - <b>lista zadań, spraw do załatwienia</b>	
	A well-organized to-do list can help manage tasks and deadlines in an efficient manner.
<b>token passing</b> - <b>przekazywanie znacznika</b>	
	Token passing is a common method used for controlling access to shared resources in distributed systems.
<b>top up</b> - <b>dopełniać, doładowywać (np. kartę telefoniczną)</b>	
	Our development team needs to top up their knowledge constantly to stay up-to-date in the ever-evolving tech industry.

**top-level domain - domena najwyższego poziomu**

Registering a top-level domain can give businesses a professional image on the internet.

**trace - ścieżka**

The trace of a bug in the code can be traced back to a typo in the variable name.

**track record - osiągnięcia, historia, udokumentowana kariera zawodowa**

Our company's track record speaks for itself, with a high success rate of delivering quality software solutions to clients.

**trademark - znak handlowy**

Protecting our company's trademark is crucial to establish brand identity and prevent unauthorized use.

**transition - przemiana, przejście**

The transition from traditional software development methods to Agile has greatly improved our productivity.

**transmit information - przesyłać informacje**

Increasing internet speeds have made it easier to transmit large amounts of information quickly.

**transparency - jawność, transparentność**

Transparency is essential in software development to ensure that all stakeholders are aware of the project's progress.

**trigger - wywoływać (reakcję)**

A simple push of a button can trigger a sequence of automated tasks in the software program.

**troubleshoot / troubleshooting - rozwiązywać problem, usuwać usterki**

I am confident in my ability to troubleshoot any bugs that arise during the development of this application.

**tuple - krotka**

Python uses the tuple data type, which is similar to a list but cannot be modified like a list can.

**turn sth around - zmienić coś (na lepsze)**

With dedication and hard work, we were able to turn it around and make our company profitable.

**turning point - punkt zwrotny**

The launch of our new mobile app was a turning point in our company's growth.

**turnover - obrót, rotacja (kadr)**

The company's high employee turnover rate has raised concerns among investors.

**two-way street (idiom) - działanie dwukierunkowe, wzajemne**

Effective communication between developers and clients is a two-way street for creating successful software products.

## U.

**ultimate - ostateczny, końcowy**

The ultimate goal of our artificial intelligence project is to automate tedious tasks.

**umbrella term - szerokie pojęcie, pojęcie zbiorcze**

"Big Data" is an umbrella term that encompasses a variety of data analysis techniques.

**unauthorized access - nieautoryzowany/nieuprawniony dostęp**

The cyber attack was the result of unauthorized access to sensitive data.

**unauthorized user - nieautoryzowany, nieuprawniony użytkownik**

We have implemented strict security measures to prevent unauthorized users from accessing our system.

**under pressure - pod presją**

Software development teams often work under pressure to meet tight deadlines.

**unethical - nieetyczny**

It is unethical to use customer data for targeted advertising without their consent.

**unforeseen - nieoczekiwany, nieprzewidziany**

The unforeseen server crash caused our website to go offline for an hour.

**uniform resource locator - jednolity lokalizator zasobów/adres URL**

The uniform resource locator (URL) for our website is easy to remember and share.

**unique identifier - unikalny identyfikator**

Each person's DNA sequence serves as a unique identifier for medical purposes.

**unique selling point (USP) - unikatowa cecha produktu**

Our product's unique selling point is its intuitive and user-friendly design.

**unstructured data set - nieustrukturyzowany zestaw danych**

Our algorithm can process large unstructured data sets and generate valuable insights.

**update - aktualizować, modernizować**

We need to regularly update the app to fix any bugs and add new features.

**upgrade - nowa wersja programu, aktualizacja**

This new version of the software has a significant upgrade in terms of user experience.

**urgent - pilny**

It is urgent that we fix the bug in our software before it affects any customers.

**utility program - program narzędziowy**

A software's user interface may look sleek and modern, but it's the underlying utility programs that keep it running smoothly.

## V.

**vacancy - wolna posada, wakaty**

We currently have a few vacant positions in our development team, seeking highly skilled candidates who can excel in a fast-paced environment.

**valid [invalid] - aktualny, ważny [nieaktualny, nieważny]**

Our company values honesty and integrity, therefore only valid and reliable information is shared with clients and investors.

**validate - potwierdzać**

As a wholesaler, it's imperative for us to validate the quality and accuracy of our products before sending them out to retailers.

**validation test - test walidacyjny**

To ensure the quality and functionality of our software, we conduct rigorous validation tests before releasing updates or new products.

**value for money - wart swojej ceny**

We pride ourselves on providing value for money with our software, offering powerful features at an affordable price.

**variable - zmienna**

When creating software, it's important to consider variable factors such as user preferences and potential technical glitches.

**viable - wykonalny, realny**

Our company values innovation and encourages all employees to make suggestions for improving processes, offering bonuses for viable ideas.

**video card - karta wideo**

This game requires advanced graphics capabilities, so a high-performance video card is essential for a smooth gaming experience.

**viral - wirusowy, rozprzestrzeniający się szybko**

The company's promotional video went viral on social media, reaching millions of views.

**virtual reality (VR) - rzeczywistość wirtualna**

Virtual reality has revolutionized the gaming industry, allowing players to fully immerse themselves in interactive and realistic worlds.

**voice recognition - rozpoznawanie mowy/głosu**

Voice recognition technology has come a long way in recent years, making hands-free communication and control of devices possible.

**volatile memory - pamięć ulotna**

In order to save money and maximize storage space, our IT department is looking into utilizing cloud-based storage options instead of relying solely on volatile memory.

**volume - wolumen**

The volume of data generated by social media platforms is increasing exponentially.

## W.

**wage / weekly wage / minimum wage - płaca / tygodniówka / wynagrodzenie minimalne**

Our weekly wage depends on our productivity and meeting project deadlines, motivating us to constantly learn and improve our skills in software development.

**warehouse - magazyn**

We use a warehouse management system that integrates with our website to keep track of inventory and fulfill orders in a timely manner.

**way forward - krok naprzód, droga dalszych działań**

In order to stay competitive, our company is always looking for the most innovative way forward in technology and development.

**web interface - interfejs www**

The web interface for this software is extremely user-friendly and easy to navigate, making it a top choice for businesses.

**webpage - podstrona internetowa**

I need to update the webpage design with more interactive elements.

**website - witryna sieci WWW/strona internetowa**

Please fill out your professional profile on our company website for potential job opportunities.

**white-collar worker - pracownik umysłowy**

As a white-collar worker in the tech industry, I rely heavily on my company's website to communicate with clients and manage projects efficiently.

**wholesale / wholesaler - hurtowy / hurtownik**

As a wholesaler, it's imperative for us to validate the quality and accuracy of our products before sending them out to retailers.

**win-win situation - sytuacja, w której nie ma przegranych**

Furthermore, it is also a win-win situation for the industry, which will receive innovation incentives to produce better and safe products in the future.

**wire - przewód**

Don't touch those wired whatever you do.

**wired connection - połączenie przewodowe**

Ethernet delivers stable, speedy, secure wired connections to the internet and between devices.

**wireless application protocol - protokół aplikacji bezprzewodowych**

Wireless Application Protocol (WAP) is a technical standard for accessing information over a mobile wireless network.

**wireless client - klient sieci bezprzewodowej**

The wireless client list displays all clients that are currently connected to a wireless network through an access point.

**wireless connection - połączenie bezprzewodowe**

To enable wireless connections, you need a basic remote access Policy to allow wireless users.

**wireless network - sieć bezprzewodowa**

A wireless network is a computer network that uses wireless data connections between network nodes.

**withdraw - wycofywać się, wypłacać peiniądze**

The 2012 edition was cancelled after several sponsors withdrew.

**workflow** - przepływ, cykl pracy

The information is analysed, and anything that stops the workflow is identified.

**workforce** - zatrudnieni, siła robocza

It is about having a trained workforce, which is something that we know we need.

**working group** - grupa robocza

We have team working group meetings every day to enable us to complete the work.

**working software** - działające oprogramowanie

Working software is the primary measure of progress. There's often a huge difference between working software and complete software.

**working system** - działający system

We don't have a working system yet, it will probably take another week to accomplish this goal.

**work-life balance** - równowaga między życiem zawodowym a osobistym

That should help them to achieve a better work-life balance and to remain employable.

**workload** - obciążenie pracą

Remuneration should also match the workload and quality of work performed.

**workshop** - warsztat, zakład

I am sorry that you cannot attend this workshop.

**workspace** - przestrzeń robocza

A growing number of companies are packing their workers into ever smaller workspaces.

**world wide web** - sieć WWW/sieć ogólnosiwiatowa

Tim Berners-Lee, a British scientist, invented the *World Wide Web* (WWW) in 1989, while working at CERN.

**worst-case scenario** - najgorszy scenariusz

Before you set your wager, make sure your finances can handle the worst-case scenario.

## Y.

**y-axis**

Annual profits over the last 10 years are plotted on the y-axis.

**yield** - dać, dawać, skutkować

A small change in one place can yield terrific results in some distant place.

**yield benefits** - przynosić korzyści

The company latest investment yielded benefits for the employees.

**yield good results** - dawać dobre wyniki

The right algorithm will yield good results.

## Z.

**zero bit** - bit zerowy

Zero-bit insertion is a bit-stuffing technique in which a zero bit is inserted after a series of one bits to highlight a sequence change or break.

**zero condition** - stan zerowy

If the computer determines the conditions to be zero, or false, it passes over the statement and moves on to the next one.

**zip** - kompresować plik

Zip the files before you email them.