

Fetch-execute Cycle	CPU (Central Processing Unit)
ALU (Arithmetic Logic Unit)	Processor Cache
Register	Von Neumann Architecture
MAR (Memory Address Register)	MDR (Memory Data Register)
Program Counter	Accumulator
Clock Speed	Cache Size
Cores	Fetch-execute Cycle
CPU (Central Processing Unit)	ALU (Arithmetic Logic Unit)

<p>A chip within the computer which controls the operation of all parts of the computer and decodes then executes program instructions.</p>	<p>Instructions are fetched one by one from main memory, decoded, and then executed by the processor. This cycle repeats until the program is complete</p>
<p>High speed memory built into the CPU. Instructions are copied to cache memory allowing them to be accessed more quickly and therefore increasing the speed of the CPU.</p>	<p>The part of the CPU responsible for arithmetic and logical operations.</p>
<p>The design on which most computers are based. It defines several registers along with the fetch-execute cycle and how the CPU interacts with main memory.</p>	<p>A small area of memory within the CPU where data is stored temporarily to avoid the delay in copying to and from main memory,</p>
<p>A register. It contains the instruction which has just been copied from main memory.</p>	<p>A register. It contains the address of the instruction currently being read from or written to main memory.</p>
<p>A register. Stores the result of the last operation.</p>	<p>A register. It contains the address of the next instruction to be fetched from memory. It is updated each time a new instruction is fetched to contain the address of the next needed instruction.</p>
<p>The larger the amount of cache the CPU has the more instructions it can store without having to transfer to main memory and therefore the faster it will perform.</p>	<p>How many instruction cycles the CPU can deal with in a second. Measured in MHz or GHz. Faster is better.</p>
<p>Instructions are fetched one by one from main memory, decoded, and then executed by the processor. This cycle repeats until the program is complete</p>	<p>Some CPUs have more than one core, each containing its own ALU and registers and therefore capable of carrying out instructions independently. The more cores, the more instructions the CPU can process at once and therefore the faster it performs.</p>
<p>The part of the CPU responsible for arithmetic and logical operations.</p>	<p>A chip within the computer which controls the operation of all parts of the computer and decodes then executes program instructions.</p>

Processor Cache	Register
Von Neumann Architecture	MAR (Memory Address Register)
MDR (Memory Data Register)	Program Counter
Accumulator	Clock Speed
Cache Size	Cores
Embedded System	Primary Storage
RAM	ROM
Volatile Memory	No-Volatile Memory

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<p>A register. It contains the address of the instruction currently being read from or written to main memory.</p>	<p>The design on which most computers are based. It defines several registers along with the fetch-execute cycle and how the CPU interacts with main memory.</p>
<p>A register. It contains the address of the next instruction to be fetched from memory. It is updated each time a new instruction is fetched to contain the address of the next needed instruction.</p>	<p>A register. It contains the instruction which has just been copied from main memory.</p>
<p>How many instruction cycles the CPU can deal with in a second. Measured in MHz or GHz. Faster is better.</p>	<p>A register. Stores the result of the last operation.</p>
<p>Some CPUs have more than one core, each containing its own ALU and registers and therefore capable of carrying out instructions independently. The more cores, the more instructions the CPU can process at once and therefore the faster it performs.</p>	<p>The larger the amount of cache the CPU has the more instructions it can store without having to transfer to main memory and therefore the faster it will perform.</p>
<p>Also known as memory. Holds the data, programs and instructions currently in use.</p>	<p>Specialist hardware and software build into a device with a single specific purpose. They are usually found within appliances such as washing machines.</p>
<p>Read Only Memory. Data can be retrieved but not changed and the contents are not lost when the computer is turned off. Used to store programs for embedded system</p>	<p>Random Access Memory. Stores programs and data before they are processed by the CPU. Read/write memory, meaning the contents can be changed. The contents are lost when the computer is turned off.</p>
<p>Data stored in non-volatile memory is not lost when the computer is turned off.</p>	<p>Data stored in volatile memory is lost when the computer is turned off.</p>

Virtual Memory	Optical Storage
Magnetic Storage	Solid State Storage
HDD (Hard Disk Drive)	DVD (Digital Versatile Disk)
CD (Compact Disk)	SSD (Solid State Drive)
Bit	Nibble
Byte	Kilobyte (KB)
Megabyte (MB)	Gigabyte (GB)
Terabyte (TB)	Petabyte (PB)

<p>A type of secondary storage which stores data on a spinning plastic or metal disk. Data is read from and written to the disk using a laser.</p>	<p>Space on the computer's hard drive used as main memory (RAM). Virtual memory is slower than main memory.</p>
<p>A type of secondary storage which uses flash memory to store data. They have no moving parts and are much faster than optical or magnetic storage.</p>	<p>A type of secondary storage which uses magnetic fields to store data. A read/write head reads and writes data from the media.</p>
<p>A high capacity optical storage disk commonly used for video storage. A range of capacities are available up to 17GB</p>	<p>A magnetic storage drive which can store large amounts of data and is often the main method of secondary storage in personal computers. The drive contains a number of internal disks and a read/write head used to read and write data.</p>
<p>A solid state storage drive which carries out the function of a traditional HDD. They are much faster than HDDs and less easy to damage as they have no moving parts. They are also more expensive and usually lower capacity.</p>	<p>An optical storage disk often used to store music. Capacity is usually around 800mb</p>
<p>4 bits (half a byte)</p>	<p>The smallest unit of storage, containing a binary 1 or 0.</p>
<p>1000 bytes</p>	<p>8 bits</p>
<p>1000MB</p>	<p>1000 KB</p>
<p>1000TB</p>	<p>1000GB</p>

Binary	Denary
Positive Number	Negative Number
Integer	Overflow Error
Hexadecimal	Binary Shift
Most Significant Bit	Least Significant Bit
Character	Character Set
ASCII	Unicode
Pixel	Metadata

<p>The number system most often used by people. It uses the digits 0 to 9 and is also known as base 10 or decimal.</p>	<p>A number system used by computers. It contains only two symbols, 0 and 1 and is also known as base 2.</p>
<p>A number less than 0.</p>	<p>A number greater than 0.</p>
<p>This happens when not enough space has been allocated to store the results of a calculation. For example, if one byte has been allocated but the result is 9 bits long.</p>	<p>A whole number without a decimal point or fraction. E.g. 1, 100 or 88122</p>
<p>A process used to perform maths on binary numbers. It involves moving all the digits to the left or right.</p>	<p>A number system used by computers. It contains only two symbols, 0 and 1 and is also known as base 2.</p>
<p>The furthest right digit in a string of binary numbers, its position means it has the lowest value.</p>	<p>The furthest left digit in a string of binary numbers, its position means it has the highest value.</p>
<p>A system for representing characters in binary, each character is assigned a unique binary number.</p>	<p>A single symbol, for example a letter, number or punctuation mark.</p>
<p>A much larger character set created to overcome the limited number of characters available in ASCII. It includes many different language characters as well as other symbols such as emojis.</p>	<p>American Standard Code for Information Interchange. A 7 bit character set used to represent characters.</p>
<p>Additional data about a file such as when it was created or who created it. Commonly used with photos to store things like the make of camera or location the photo was taken.</p>	<p>Short for Picture Element. Pictures on a computer are divided into a grid, with each square in the grid being one pixel which can be a single colour.</p>



Colour Depth	Resolution
Sample Rate	Bit Depth
Analogue	Compression
Lossy Compression	Lossless Compression
Network	LAN (Local Area Network)
WAN (Wide Area Network)	Client - Server
Peer to Peer	Wireless Access Point
Router	Switch

<p>The number of pixels an image is divided into. The higher the resolution, the more pixels in the image and the clearer it will be.</p>	<p>The amount of bits available for colours in an image. The higher the colour depth the more colours available and therefore the more realistic the image will appear.</p>
<p>The number of bits available for each sample. The higher the bit depth, the more bits available and therefore the better the quality.</p>	<p>The number of samples taken in one second. This is measured in hertz (Hz), 1Hz is one sample per second. The higher the sample rate, the more samples per second and therefore the higher the quality of the file.</p>
<p>A way of reducing the size of a file. It is often used with photos, music and video files.</p>	<p>A continuously varying signal, usually represented as a curved line. Examples include sound or temperature recordings.</p>
<p>A compression method which reduces the file size without losing any data. The original file can be restored from the compressed version, but the file size is not reduced by as much.</p>	<p>A compression method which reduces the file size by removing certain data. The original file cannot be restored from the compressed version but the file is reduced by more than with lossless compression.</p>
<p>A network which covers a small geographic area such as a single building.</p>	<p>Two or more computers connected together for the purposes of sharing data or resources.</p>
<p>A network setup where resources or processing are carried out by a central computer (called a server) with other devices (called clients) accessing resources via the network.</p>	<p>A network which covers a large geographic area.</p>
<p>Uses a wireless radio to allow devices to connect wirelessly to an existing network.</p>	<p>A network setup where all computers have an equal status and function as both client and server.</p>
<p>A device which provides computers and other devices with a wired connection to a network.</p>	<p>A device which connects two or more different networks together allowing them to communicate with one another.</p>

NIC (Network Interface Card)	Transmission Media
DNS (Domain Name System)	Hosting
The Cloud	Web Server
Network Topology	Star Network
Mesh Network	Bandwidth
The Internet	URL
Client	Ethernet
Wi-Fi	Bluetooth

<p>The physical connection which carries data between network devices. This could be a cable or wireless signals depending on the network.</p>	<p>A component within a computer or other device which allow it to connect to a network. The card provides the physical connection to the network and controls the sending and receiving of data between the computer and the network. It may be built into the computer motherboard or a separate expansion card.</p>
<p>The storing of files or other data on a server. The server storing the data is called the host.</p>	<p>A system which links a URL or other human readable name with an IP address.</p>
<p>A server which hosts web sites and pages for users to access, usually via The Internet.</p>	<p>A term for accessing storage or other resources remotely across The Internet.</p>
<p>A network topology where all devices connect back to a single central point. All communications travel via the central point.</p>	<p>The way in which computers and other network devices are connected together.</p>
<p>The amount of data which can be transferred via a network in any given time. More bandwidth allows more data to travel across the network at the same time resulting in faster transfer speeds.</p>	<p>A network topology where all devices are connected to each other rather than a central point.</p>
<p>Uniform Resource Locator. A human readable name given to websites and other Internet resources. DNS is used to translate the URL into the IP of the web server.</p>	<p>A global network connecting millions of computers and other devices.</p>
<p>A physical copper cable used to connect devices on a network. The term also refers to the protocols and standards used to control how data is sent and received on the cable.</p>	<p>A computer or other device which accesses data from a central server.</p>
<p>A short range wireless networking technology. It has relatively low range and speeds and is most often used for peripheral devices such as mice or headsets.</p>	<p>A technology which uses wireless signals to connect network devices.</p>

Encryption	IP Address
IPv4	IPv6
MAC Address	Standard
Protocol	TCP/IP
HTTP	HTTPS
FTP	POP
IMAP	SMTP
Malware	Social Engineering

<p>Stands for Internet Protocol Address. A unique address assigned to every computer on a network.</p>	<p>The process of converting data so that it cannot be easily read or understood without first being decrypted. It is often used to keep important data secure when sharing it over a network.</p>
<p>Internet Protocol Version 6. Designed in response to the limited number of addresses in IPv4. Devices are assigned an address made of eight groups of hexadecimal characters such as FE80:CD00:0000:0CDE:1257:0000:211E:729C</p>	<p>Internet Protocol Version 4. Devices are assigned addresses made up of four numbers separated by dots, e.g. 232.112.11.1 each number can be between 0 and 255.</p>
<p>An agreed way of doing something allowing different people and organisations to make products and services which work together.</p>	<p>Media Access Control Address. A 12 digit hexadecimal number assigned to a network interface card. Each card has its own unique MAC address assigned when the card is made.</p>
<p>Transfer Control Protocol / Internet Protocol. A group of standards which control how data is sent and received over networks including the Internet.</p>	<p>An agreed set of rules for how network communications should take place.</p>
<p>Hypertext Transfer Protocol Secure. A version of the HTTP standard with security added. Commonly used for accessing secure websites such as online banking.</p>	<p>Hypertext Transfer Protocol. A standard for transferring web pages between a client and web server. It is based around the idea that clients send a request which the server responds to.</p>
<p>Post Office Protocol. A standard used by email clients to retrieve emails from an email server.</p>	<p>File Transfer Protocol. A standard for file transfer over networks.</p>
<p>Simple Message Transfer Protocol. A standard used for the sending of emails over networks and The Internet.</p>	<p>Internet Message Access Protocol. A standard used by email clients to access emails stored on an email server. It has the advantage over POP of allowing emails to be stored and organised on the mail server.</p>
<p>Attempting to gain access to computer systems by targeting the people using the system instead of using technical measures to attack the system itself. People are often the weakest security point in a computer system and examples such as watching someone enter their password or pretending to be their boss and</p>	<p>A term for any software which is designed with malicious intent. Malware may damage the computer, monitor user activity and files or delete or damage data. There are many different types of malware which behave in different ways.</p>

Phishing	Brute-force attack
Denial of Service Attack	Data Interception
SQL Injection	Penetration Testing
Anti-Malware Software	Firewall
User Access Level	Password
Encryption	Physical Security
Operating System (OS)	User Interface
Memory Management	Multitasking

<p>Attempting to guess a code or password by trying every possible solution until the correct one is found. The attack may work through a list of common passwords or dictionary words, or simply start with a code of 0000, followed by 0001 etc.</p>	<p>Attempting to trick someone in to revealing information such as their password, financial, or other private information by pretending to be someone else. Phishing usually takes place by email, and involves sending an email which pretends to have come from the user's bank or other trusted organisation or person.</p>
<p>Attempting to access data whilst it is being transferred between devices, usually over a network. The victim usually has no idea that their data has been stolen, and the attacker may access usernames and passwords or whole files.</p>	<p>Attempting to send more traffic or data to a computer system than it is able to handle. If successful, this results in parts of the system, or even the whole system, being unable to process the data it is receiving and failing.</p>
<p>An authorised hacking attempt where a person or company attempts to hack into a system or network and then reports their finding to the system's owner. This allows security flaws to be fixed before real hackers can take advantage of them.</p>	<p>Entering SQL code into a data input field on a web site or application. If the system is not correctly coded, and uses a SQL database, the code could be run directly on the database, allowing the attacker to access, change or delete the entire database.</p>
<p>A network security device which checks traffic passing through it against a set of rules, only traffic which meets the rules is allowed through. This prevents traffic from unauthorised devices or using unauthorised protocols from passing through.</p>	<p>Software which attempts to detect, prevent and remove malware on a computer system. Anti-Virus software is a common example of anti-malware software.</p>
<p>A secret word or phrase, usually provided alongside a username, to control access to a system or network. Only someone who knows the correct password can access the system.</p>	<p>Controlling which aspects of a system or network users can access. Users are allowed access only to the parts of the system they need, preventing them from accidentally or deliberately damaging sensitive parts of the system or accessing sensitive data.</p>
<p>Securing the physical components of a system or network. This could be as simple as locking a portable computer to a desk or advanced as storing servers in a reinforced building with multiple locked doors.</p>	<p>The process of converting data so that it cannot be easily read or understood without first being decrypted. It is often used to keep important data secure when sharing it over a network.</p>
<p>A part of the operating system or other software which allows the user to interact with and control it. They usually comprise of a graphical component which the user can see on a monitor or other display hardware, and way for the user to interact with the system, either by typing commands, or clicking items with a mouse or</p>	<p>Controls the operation of all aspects of the computer and provides an interface by which a user can interact with the computer.</p>
<p>The ability for an operating system to run more than one task or application at the same time.</p>	<p>The function of the Operating System which manages the computer's memory, controlling how the memory is used and which applications can access it.</p>



Peripheral Management	Device Driver
User Management	File Management
Access Rights	Encryption Software
Defragmentation	Data Compression
Ethical	Legal
Cultural	Environmental
Privacy	The Data Protection Act (2018)
Computer Misuse Act (1990)	Copyright Designs and Patents Act (1998)

<p>Computer code which provides instructions for how the operating system should interact with a specific piece of hardware. Device drivers are specific to the operating system and piece of hardware for which they were designed.</p>	<p>The ability of an operating system to control and manage hardware devices such as printers, mice or speakers which are connected to the computer.</p>
<p>A function of the operating system which manages files and folders stored on either the computer's internal storage, or external storage devices such as a USB Stick.</p>	<p>A function of the operating system which manages user accounts. In many cases, multiple user accounts can exist with their own username, password and access rights allowing more than one person to use the same computer.</p>
<p>Software which encrypts data. The encryption process turns the data into code which is only readable with the correct key. This is designed to keep the data secure and prevent it being read by those who should not have access to it.</p>	<p>A function of the operating system which manages the access that different users and applications have to the system. It allows different user accounts or applications to be granted access to different parts of the system.</p>
<p>Software which compresses data so that it takes up less storage space.</p>	<p>Software which reorders files stored on a hard disk so that they run in a sensible order to improve performance and efficiency.</p>
<p>A set of rules which lay out behaviours which are not allowed and the punishments for breaking these rules. Laws vary from country to country, with new laws being made and existing ones being updated.</p>	<p>The idea of right and wrong by which people should behave. This is not the same as what is legal or illegal, but the idea of always doing the right thing.</p>
<p>Matters relating to the natural world around us and making sure we take good care of things like animals, the atmosphere and the planet as a whole.</p>	<p>A set of behaviours and expectations which people accept as being normal and expected within their daily lives. These are not enforced by any laws, and don't always have to do with right and wrong but are how people expect things should be. An example might be colouring a delete button red, or ordering items</p>
<p>A law in the United Kingdom which governs the processing of personal data. It outlines the requirements for organisations who handle data and the rights of those who provide the data.</p>	<p>The expectation that certain information is kept secret. Usually this relates to personal information such as someone's address or medical history which they would not want to be shared.</p>
<p>A law in the United Kingdom which provides protection in law for works and materials. The act explains what protections are available, and what (if any) steps need to be taken to register for these protections.</p>	<p>A law in the United Kingdom which makes misuse of computer systems illegal if certain criteria are met.</p>

Software License	Open Source Software
Proprietary Software	Computational Thinking
Abstraction	Decomposition
Algorithmic Thinking	Algorithm
Structure Diagram	Pseudocode
Flowchart	Programming Language
Error	Trace Table
Search	Binary Search

<p>Software where the code is made available to the public to view or edit as they wish. Open source software is usually free for anyone to use.</p>	<p>The right for an organisation or user to use a piece of computer software. The license is an agreement between the person or organisation who made the software and those using it and lays out any rules or restrictions associated with use. The user may have to pay either a one time or yearly fee for the license.</p>
<p>The process of thinking about a problem using computational means in order to create a solution which a computer can implement.</p>	<p>Software where the source code is owned by a person or organisation and is not available to the public.</p>
<p>The process of breaking a problem down into smaller parts to make it easier to solve.</p>	<p>The process of removing irrelevant or unnecessary information from the problem in order to better understand the basic parts of it.</p>
<p>A sequence of logical instructions to carry out a particular task.</p>	<p>The process of working out the individual steps needed to solve a problem in order to produce an algorithmic solution.</p>
<p>A way of writing out algorithms or other computer programs in a way which sits somewhere between full sentences and computer code.</p>	<p>A diagram which shows in graphical format the steps needed to solve a problem. There are several different types of structure diagram and a flow chart is one example.</p>
<p>A language which can be understood by computers to produce computer software.</p>	<p>A way of using pictures and shapes to represent the steps needed to solve a problem or that a program will take.</p>
<p>A table which records the values stored in each of a program's variables at each stage through the program. It is a useful tool when trying to find errors in the code.</p>	<p>Something wrong in computer code which causes it either to not run at all or to produce an incorrect output.</p>
<p>A way of searching an ordered list by looking at the middle item in the list, then looking at either the items above or below depending on if the required value is higher or lower. This process repeats until the value is found.</p>	<p>Finding a value or piece of information within a set of data.</p>

Linear Search	Sort
Bubble Sort	Merge Sort
Insertion Sort	Variable
Constant	Operator
Input	Output
Assignment	Sequence
Selection	Iteration
Count Controlled Loop	Condition Controlled Loop

<p>A way of placing information into a certain order, such as alphabetically or by number.</p>	<p>A way of searching through a list items, checking them one at a time until the required value is found.</p>
<p>A way of sorting a list by dividing it in two until each item is separated individually. Pairs of items are compared and placed in order until the list as a whole is ordered.</p>	<p>A way of sorting a list by comparing the items in a list, two at a time, and changing the order if needed. The process repeats until the list is in the correct order.</p>
<p>A named value in which data can be stored by a computer program. The data can be changed as the program runs.</p>	<p>A way of sorting a list by working through the items one at a time and placing them in the correct position in the list.</p>
<p>Operators compare or modify values in computer code. Examples include + &lt; and NOT.</p>	<p>A named value which is accessed by a computer program but is fixed and cannot be changed.</p>
<p>Data or information which the program produces. This could be shown on a screen, sent to a printer, or saved to a file.</p>	<p>Data or information which is put into the program. This could be entered via a user, or taken from a sensor.</p>
<p>Following through a set of steps in a particular order.</p>	<p>The process of placing a value in to a variable.</p>
<p>Repeating a set of steps several times.</p>	<p>Taking different paths through the code depending on a condition.</p>
<p>Using a loop to repeat one or more lines of code until a certain condition is met.</p>	<p>Using a counter to loop through one or more lines of code until they have been run a certain number of times.</p>

Arithmetic Operator	Boolean Operator
Integer	Real
Boolean Operator	Character
String	Casting
String Manipulation	Concatenation
Slicing	File Handling
Record	Table
Field	SQL

<p>An operator which uses a logical criteria to compare two values such as &lt; or AND</p>	<p>An operator which uses maths to modify numbers such as +</p>
<p>A number which may include a decimal point such as 11.2</p>	<p>A whole number without a decimal point or fraction. E.g. 1, 100 or 88122</p>
<p>A single symbol, for example a letter, number or punctuation mark.</p>	<p>A value which can be only TRUE or FALSE.</p>
<p>The process of forcing a value into a certain format, for example forcing a telephone number to be stored as a string and not an integer.</p>	<p>A number of characters together, usually to form a word or sentence.</p>
<p>The process of joining two or more strings together.</p>	<p>A broad term for a number of ways to change or modify strings.</p>
<p>Ways in which computer code can interact with files on the computer's disk, such as opening them or writing data to them.</p>	<p>The process of splitting a string into two or more parts.</p>
<p>A group of records and fields stored together in a database.</p>	<p>A single row or related information in a database table</p>
<p>Structured Query Language. A programming language designed to be used with databases.</p>	<p>A part of a record in the database which stores specific information such as a name or address.</p>



Array	Sub Program
Function	Procedure
Random Number	Defensive Design
Authentication	Input Validation
Maintainability	Naming Conventions
Indentation	Comment
Testing	Iterative Testing
Final Testing	Syntax Error

<p>A smaller part of the program which performs a specific task.</p>	<p>A set of data items stored together with a single name and accessed by a program.</p>
<p>A sub program which performs a specific task but does not always return a value.</p>	<p>A sub program which performs a specific tasks and always returns a specific value when run.</p>
<p>Designing and building computer code with the ability to keep it secure, easy to maintain and robust as a priority.</p>	<p>A number generate by computer at random.</p>
<p>The process of comparing data entered into the program to a set of rules to ensure it is valid and will not damage the system before processing it.</p>	<p>A security mechanism which requires a password, code, fingerprint or other factor to gain access to all or part of a system.</p>
<p>An agreed way of naming parts of the program such as variables or sub programs such that they are easy to read and their purpose is clear.</p>	<p>The ability to keep code updated, fix bugs and add new features easily.</p>
<p>Lines which do not form part of the code and are not executed but instead provide notes and explanations to those looking at the code.</p>	<p>Inserting spaces at the start of a line or lines of code so to group them together and make the code easier to read.</p>
<p>Testing which is carried out whilst the program is being developed.</p>	<p>The process of trialling a program in order to ensure it performs as expected.</p>
<p>An error which breaks the rules of the programming language and stops the code from running.</p>	<p>Testing which is carried out at the end of development just before the code is released.</p>

Logic Error	Normal Data
Boundary Data	Invalid Data
Erroneous Data	AND
OR	NOT
Truth Tables	Logic Gate
Logic Diagram	Programming Language
High Level Language	Low Level Language
Translator	Compiler

Data which the program should accept without error.	An error which produces an unexpected output even though the code still runs.
Data of the correct type, but not valid for the program and which should be rejected.	Data at the extremes of what the program should accept without error.
Has two inputs and outputs 1 only if both are 1.	Data which is the wrong type and should be rejected
Has a single input and outputs the opposite of that input.	Has two inputs, if both are 1 then outputs 1, otherwise outputs 0.
An operator such as AND, OR or NOT which performs a logical function on the input.	A table which shows the possible input and output values for a logic gate
A language which can be understood by computers to produce computer software.	A diagram showing one or more logic gates together.
A programming language closer to machine code, using less English like commands making it harder to understand.	A programming language which is close to English in the commands used making it easier to learn and understand.
A translator which converts code in one go.	A piece of software which converts programming language into machine code which the computer can understand and execute.

<p style="text-align: center;"><b>Interpreter</b></p>	<p style="text-align: center;"><b>Integrated Development Environment</b></p>
<p style="text-align: center;"><b>Editor</b></p>	<p style="text-align: center;"><b>Error Diagnostics</b></p>
<p>A piece of software used by developers to write computer code. They often contain features such as translators and syntax highlighters to make it easier to write code.</p>	<p>A translator which converts code line by line.</p>
<p>Tools to help locate and resolve errors in code.</p>	<p>A piece of software used to write computer code.</p>
	<p>A tool which allows code to run on a system for which it was not designed. For example, running a mobile phone app on a desktop computer.</p>