Computer Fundamental

- C- Common
- O- Oprating
- M- Machine
- P- Particular
- U- Used for
- T- Technical
- E- Educational &
- R- Research.

What is computer?

Computer is an electronic data processing machine which takes the input store the raw data process it with the help of Arithmetic logic unit (ALU) under the supervision of control unit (CU) and give us output according to the instructions. It's save for the future use. The word computer is derived from a Latin word (compute).

Functionalities of a computer

Takes data as input.

- Stores the data/instructions in its memory and use them when require
- Processes the data and converts it into useful information.
- Generates the output
- Father of computer-Charles babage(1826.)

Modern father of computer-Allen turing.

First digital or first modern computer- ENIAC Input:-

This is a process of entering data and program into the computer system.

Storage:-

The process of saving data and instruction permanently is known as storage.

Processing:-

The task of performing operation like arithmetic and logical operation is called processing.

Output:-

This is the process of producing result from the data or the instructions provided by the input device. The output is of three types' soft copy and hard copy.

Soft Copy:-

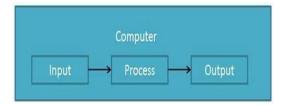
These are the output which are being provided or displayed on screen for e.g. monitor or projector.

Hard Copy:-

These are the output which is being provided on through the printer as an output.

Voice Copy:-

These are the output which is being provided on through the Speaker as an output.



Characteristics of Computer

- Automatic (Plug and play)
- ▶ High Speed
- Accuracy
- Storage Capability
- Diligence
- Versatility
- ▶ Reliability
- Secrecy

Application of Computer

- Business
- Banking
- Education
- ► Health Care (Medical)
- ► Military (Defence)
- **▶** Entrainment
- Railway
- Communication
- ▶ Telecommunication
- Sports
- Agriculture
- In office
- In libraries
- Multimedia
- ▶ Government Limitation of

computer-

- No learning power
- ▶ No decision making

- ▶ No Self intelligence
- ▶ Interaction is needed

Invention	Inventor	Time	Characteristic
Abacus	China	th 16 century	First mechanical calculation device. Used for addition & subtraction operation.
Napier's Bones	John Napier (Scotland)	1617	Perform multiplication on numbers (0 to 9). Technology used for calculation called Rabdologia.
Sliderule	William Oughtred (Germany)	1622	It is also known as slipstick. It is used for primarily for multiplication & division.
Pascaline	Blaise Pascal (France)	1642	First mechanical adding machine.(8 digit)

Leibniz's calculating machine	Gottfried Leibnitz (Germany)	1671	It is also called Reckoning machine. The machine was capable of doing addition, subtraction, multiplication & division. It is now being used in speedometers of cars and bike.
Difference Engine	Charles Babbage (England)	1822	This machine is capable of calculating various algebraic functions accurately near 20 places after decimal.

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Analytical Engine	Charles Babbage (England)	1834-71	First general purpose computer. It has 5 functions Input unit, Storage unit, mill, Control unit, Output unit. It was a decimal machine.
Tabulating Machine	Harman Hollerith (America)	1880	It was the first electromechanical machine, which was designed to process the data for census in 1890.
Mark-1	Howard Aiken (America)	1944	Main used in the war effort during world war-II
ENIAC (Electronic Numerical Integrator and Calculator)	JP Eckert and JW Mauchly (America)	1950	First electronic digital computer used for weather prediction and other scientific used.
EDSAC (Electronic Delay Storage Automatic Calculator	John Von Neumann (America)	1946-52	It was first computer which provided internal storage capacity. First computer program was run on machine.
EDVAC (Electronic Discrete Variable Automatic Computer.	John Von Neumann (America)	1950	This computer had almost 6000 vacuum tubes and 12000 diodes and consumed 56 kw of power. It was a binary computer and capable of storing programs.
UNIVAC (Universal Automatic computer.	JP Eckert and JW Mauchly (America)	1951	First general purpose electronic computer with large amount of input & output.

Computer Generations

▶ Generation in computer terminology is a change in technology a computer is/was being used.

First Generation (1946-1959)

The main features of first generation are:

- Vacuum tube technology
- Unreliable
- Supported machine language only
- Very costly
- Generated lot of heat
- Slow input and output devices
- Huge size
- Non-portable
- Consumed lot of electricity
- **Oprating system- Batch Oprating system.**

Some computers of this generation were:

- ▶ ENIAC IBM-701
- ▶ EDVAC IBM-650
- ▶ UNIVAC



Second Generation (1959-1965)

The main features of second generation are:



Use of transistors

- ▶ Reliable in comparison to first generation computers
- ▶ Smaller size as compared to first generation computers
- Generated less heat as compared to first generation computers
- Consumed less electricity as compared to first generation computers
- Faster than first generation computers
- Supported machine and <u>assembly languages</u>
- Still very costly
- Oprating system-time sharing

Example of 2 Gen. Comp.

- ▶ IBM 1620 IBM 7094
- ▶ CDC 1604 CDC 3600
- ► UNIVAC 1108

Third Generation (1965-1971)

The main features of third generation are:

- ► IC (Integrated circuits(made of silicon) used
- More reliable in comparison to previous two generations
- Smaller size
- ▶ Generated less heat
- ▶ Faster
- Lesser maintenanceStill costly
- Consumed lesser electricity
 Supported high-level

language Deprating system-Real time sharing.

- Some computers of this generation were:
- ► IBM-360 series Honeywell-6000 series
- ▶ PDP(Personal Data Processor) IBM-370/168
- ▶ TDC-316

Fourth Generation (1971-1980)

The main features of fourth generation are:



- Very Large Scale Integrated (VLSI) circuits was used
- Very cheap
- Portable and reliable
- Use of PC's
- Very small size
- Pipeline processing
- Concept of internet was introduced
- Great developments in the fields of networks
- ▶ Computers became easily available ▶ Oprating system-time sharing.

Some computers of this generation were:

- DEC 10 STAR 1000
- PDP 11 CRAY-1(Super Computer) CRAY-X-MP(Super Computer)

Fifth Generation (1980-till)

The main features of fifth generation are:

- ULSI (Ultra Large Scale Integration) technology
- Development of true artificial intelligence
- Development of Natural language processing
- Advancement in Parallel Processing
- ▶ Advancement in Superconductor technology





- ▶ More user friendly interfaces with multimedia features
- Availability of very powerful and compact computers at cheaper rates
- Used natural language.

Some computer types of this generation are:

- Desktop Laptop
- ▶ Notebook Ultra Book
- Chrome book

DEVICES Input Unit (Device)

▶ This unit contains devices with the help of which we enter data into computer. This unit makes link between user and computer. The input devices translate the information into the form understandable by computer.

List of some input device

- Keyboard
- Mouse
- Joy Stick
- Light pen
- ▶ Track Ball
- Scanner
- ▶ Camera or Webcam
- Microphone
- Magnetic Ink Card Reader(MICR)
- Optical Character Reader(OCR)
- ▶ Bar Code Reader
- Optical Mark Reader(OMR)
- ► Touch Screen
- Digitizer

Keyboard



keyboard Wireless. USB-4Pin

- Keyboard is the most common and very popular input device which helps in inputting data to the computer
- Keyboards are of two sizes 84 keys or 101/102 keys, but now keyboards with 104 keys or 108 keys are also available for Windows and Internet. Inventor-Christopher Latham sholes.(American inventor)
- The keyboard started being since 3rd Genration.
- Types of keys on keyboard.
- 1-Alphanumeric keys. <u>Indicate Letters & Numbers</u>. <u>Ex- A-Z ,0-9</u>
- 2-Function keys. <u>Ex-F1-F12</u>
- Punctution keys. Ex-Comma , Brackets({,[],()) Semicolon ;
- 4-Special keys. <u>Control keys</u> <u>Arrow keys</u> <u>Caps lock</u> <u>Delete</u>

 keys

 Mouse

Wired PS2-6Pin Wireless.

- Mouse is most popular <u>pointing device</u> to make selection on screen.
- ▶ Generally it has <u>two buttons</u> called left and right button and <u>a wheel</u> is present between the buttons. Mouse can be used to control the position of cursor on screen, but it cannot be used to enter text into the computer.



Who is known as father of computer- Douglas Engelbart.

<u>Or</u>

▶ 4 Types of mouse-1-Mechanical mouse.

2-Optical mouse.

3-Wireless Mouse.

4-Laser mouse.



Joystick

- Joystick is also a pointing device which is used to move cursor position on a monitor screen.
- The function of joystick is similar to that of a mouse.
 It is mainly used in **Computer Aided Designing** (CAD) and playing computer games.

Light Pen

Light pen is a pointing device which is similar to a pen. It is used to select a displayed menu item or draw pictures on the monitor screen.

Track Ball

▶ Track ball is an input device that is mostly used in notebook or laptop computer, instead of a mouse.



Scanner

Scanner is an input device which works more like a photocopy machine. It is used when some information is available on a paper and it is to be transferred to the hard disc of the computer for further manipulation.

Digitizer

Digitizer is an input device which converts analog information into digital form. Digitizer can convert a signal from the television or camera into a series of numbers that could be stored in a computer. They can be used by the computer to create a picture of whatever the camera had been pointed at.

Microphone

Microphone is an input device to input sound that is then stored in digital form. The microphone is used for various applications like adding sound to a multimedia presentation or for mixing music.

Magnetic Ink Card Reader (MICR)

▶ MICR input device is generally used in banks because of a large number of cheques to be processed every day. The bank's code number and cheque number are printed on the cheques with a special type of ink that contains particles of magnetic material that are machine readable. This reading process is called Magnetic Ink Character Recognition (MICR).

Optical Character Reader (OCR)

▶ OCR is an input device used to read a printed text. OCR scans text optically character by character, converts them into a machine readable code and stores the text on the system memory.



Bar Code Readers

Bar Code Reader is a device used for reading bar coded data (data in form of light and dark lines). Bar coded data is generally used in labelling goods, numbering the books etc.



Optical Mark Reader (OMR)



▶ OMR is a special type of optical scanner used to recognize the type of mark make by pen or pencil. It is used where one out of a few alternatives is to be selected and marked. It is specially used for checking the answer sheets of examinations having multiple choice questions.

Output Unit (Device)

Output devices return processed data that is information, back to the user. Some of the commonly used output devices are.

List of Some Output devices

- ► Monitors (visual display unit)
- Plotter
- Printer

▶ Speaker ▶ Projector

Monitors

Monitors, commonly called as Visual Display Unit (VDU), are the main output device of a computer.

There are two kinds of viewing screen used for monitors.

- Cathode-Ray Tube (CRT)
- ► Flat- Panel Display
 - LED(Light-Emitting Diodes)
 - LCD(Liquid-Crystal Device)
 - TFT(Thin Film Transistor)
 - 3-D Monitor

Printers

Printer is an output device, which is used to print information on paper.

There are two types of printers

▶ Impact Printers ▶

Non-Impact Printers

Impact Printers

▶ The impact printers print the characters by striking them on the ribbon which is then pressed on the paper.

Characteristics of Impact Printer

- Very low consumable costs
- Very noisy
- Useful for bulk printing due to low cost
- There is physical contact with the paper to produce an image

These printers are of two types

- Character printers (Dot Matrix Printer(DMP), Daisy Wheel)
- Line printers (Drum Printer, Chain Printer)

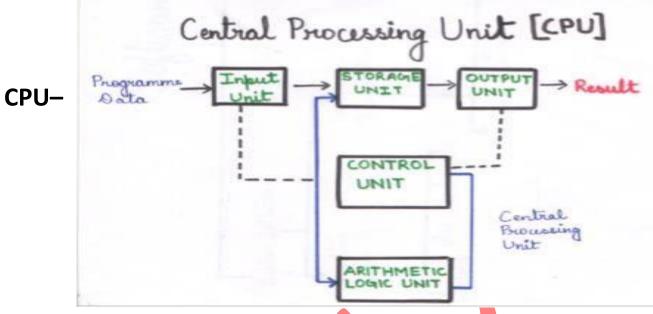
Non-impact Printers

Non-impact printers print the characters without using ribbon. These printers print a complete page at a time so they are also called as Page Printers.

These printers are

Laser Printers

- Inkjet Printers
- Thermal Printer
- ▶ Electromagnetic Printer
- ► Electrostatic Printer Characteristics of Non-impact Printers ∘ Faster than impact printers.
- They are not noisy.
- High quality.
- Support many fonts and different character size.



Central Processing Unit

- ▶ CPU is considered as the brain of the computer.
- CPU performs all types of data processing operations.
- It stores data, intermediate results and instructions (program).
- It controls the operation of all parts of computer.

CPU itself has following three components.

- Memory or Storage Unit:
- Control Unit
- ALU(Arithmetic Logic Unit)

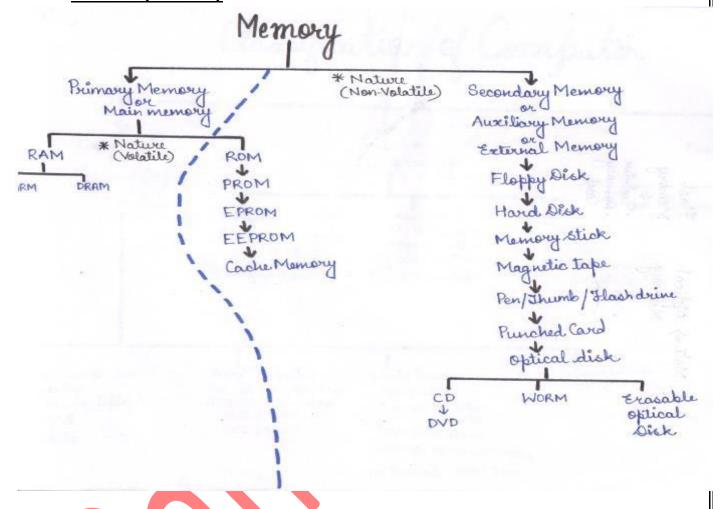
Memory or Storage Unit:

▶ This unit can store instructions, data and intermediate results. This unit supplies information to the other units of the computer when needed.

Memory is primarily of two types

Primary Memory/Main Memory

Secondary Memory



Primary Memory (Main Memory)

- ▶ Primary memory holds only those data and instructions on which computer is currently working. It has limited capacity and data is lost when power is switched off. It is generally made up of semiconductor device.
- ▶ It is divided into two subcategories RAM and ROM.



Random Access Memory

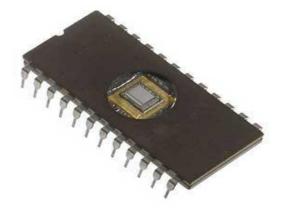
▶ RAM (Random Access Memory) is the internal memory of the CPU for storing data, program and program result. It is read/write memory which stores data until the machine is working. As soon as the machine is switched off, data is erased.

RAM is of two types

- Static RAM (SRAM)
- Dynamic RAM (DRAM)

Read Only Memory

▶ ROM stands for Read Only Memory. The memory from which we can only read but cannot write on it. This type of memory is non-volatile. The information is stored permanently in such memories during manufacture. A ROM, stores such instructions that are required to start a computer.



▶ Types of ROM

- PROM (Programmable Read only Memory)
- EPROM(Erasable and Programmable Read Only Memory)
 - EEPROM(Electrically Erasable and Programmable Read Only Memory)

Characteristics of Main Memory

- ▶ These are semiconductor memories.
- It is known as main memory.
- Usually volatile memory.
- Data is lost in case power is switched off.
- It is working memory of the computer.
- Faster than secondary memories.
- ▶ A computer cannot run without primary memory.

Secondary Memory

This type of memory is also known as external memory or nonvolatile. It is slower than main memory. These are used for storing data/Information permanently. CPU directly does not access these memories instead they are accessed via input-output routines. Contents of secondary memories are first transferred to main memory, and then



CPU can access it. There are many secondary storage devices available

- Magnetic tape
- Magnetic Disk
- Floppy Disk
- Hard Disks
- ► CD (Compact Disk)
- DVD (Digital Video Disk)
- ▶ USB Thumb Drive (or) Pen Drive (or) Flash Drive

Characteristic of Secondary Memory

- These are magnetic and optical memories.
- It is known as backup memory.
- It is non-volatile memory.
- ▶ Data is permanently stored even if power is switched off.
- It is used for storage of data in a computer.
- Computer may run without secondary memory.
- Slower than primary memories.

Cache Memory

▶ Cache memory is a very high speed semiconductor memory which can speed up CPU. It acts as a buffer between the CPU and main memory. It is used to hold those parts of data and program which are most frequently used by CPU

Advantages

- Cache memory is faster than main memory.
- It consumes less access time as compared to main memory.
- It stores the program that can be executed within a short period of time.
- It stores data for temporary use.

Control Unit

▶ This unit controls the operations of all parts of computer but does not carry out any actual data processing operations.

Functions of this unit are:

- It is responsible for controlling the transfer of data and instructions among other units of a computer.
- It manages and coordinates all the units of the computer.
- It obtains the instructions from the memory, interprets them, and directs the operation of the computer.
- It communicates with Input/output devices for transfer of data or results from storage.
- It does not process or store data.

ALU (Arithmetic Logic Unit)

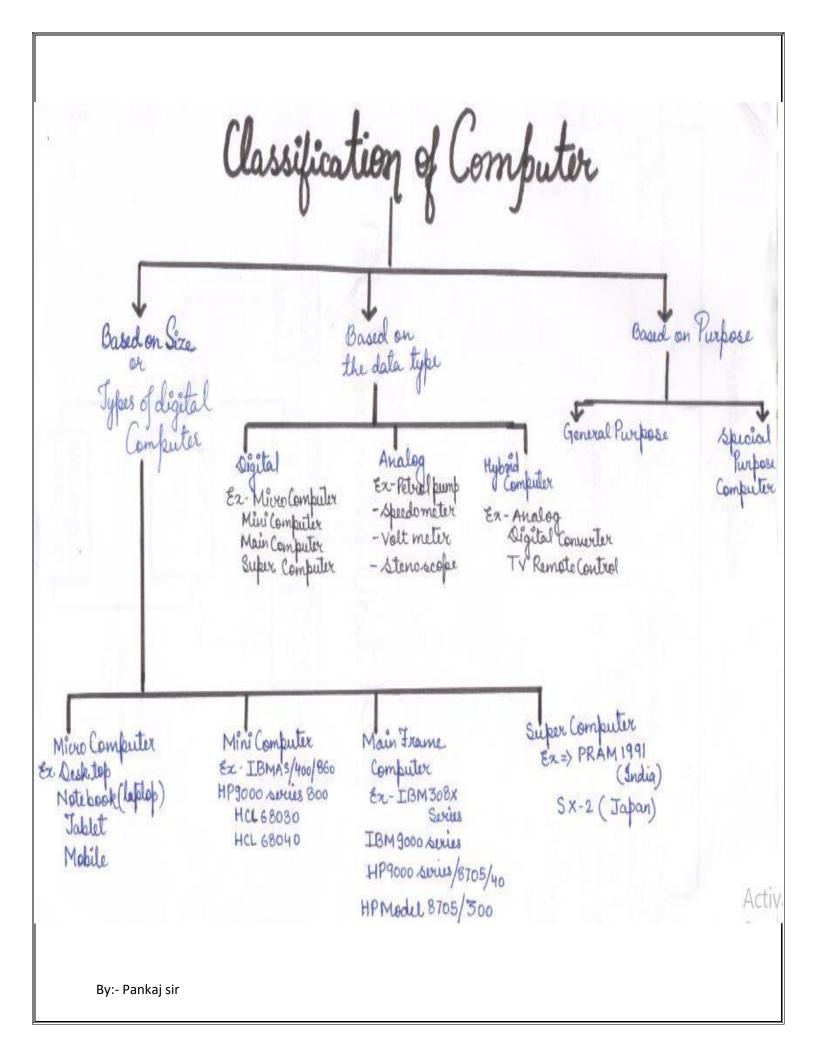
- ▶ This unit consists of two subsections namely
 - Arithmetic section
 - Logic Section

Arithmetic Section

▶ Function of arithmetic section is to perform arithmetic operations like addition, subtraction, multiplication and division. All complex operations are done by making repetitive use of above operations.

Logic Section

▶ Function of logic section is to perform logic operations such as comparing, selecting, matching and merging of data.



Classification of computers

Computers can be classification the basic of different factor, computer can be divided into these major classes based on the made of data representation .they are as follow

Analog computer

The computer which uses the analog single or data represent the data are known analog computer.

Digital computer

The computer which uses digital signal to represent the data is known as digital computer.

Hybrid computer

The computers which are able to work with analog single as well as digital signal are known as hybrid computer.

On the basic of size

Micro computers

A microcomputer is the smallest general- purpose processing system that can execute program instruction to perform a wide variety of task. Ex - Desktop Computer, Notebook, Handheld computer, Tablet etc.

▶ Mini computer

It is a multi-user computer larger size and processing power fast as compared to microcomputer. It uses at enhanced instruction said facilitate scientific and business application.

Ex - IBMAS/400/B60, HP 900 series 800 etc.

Main frame computers

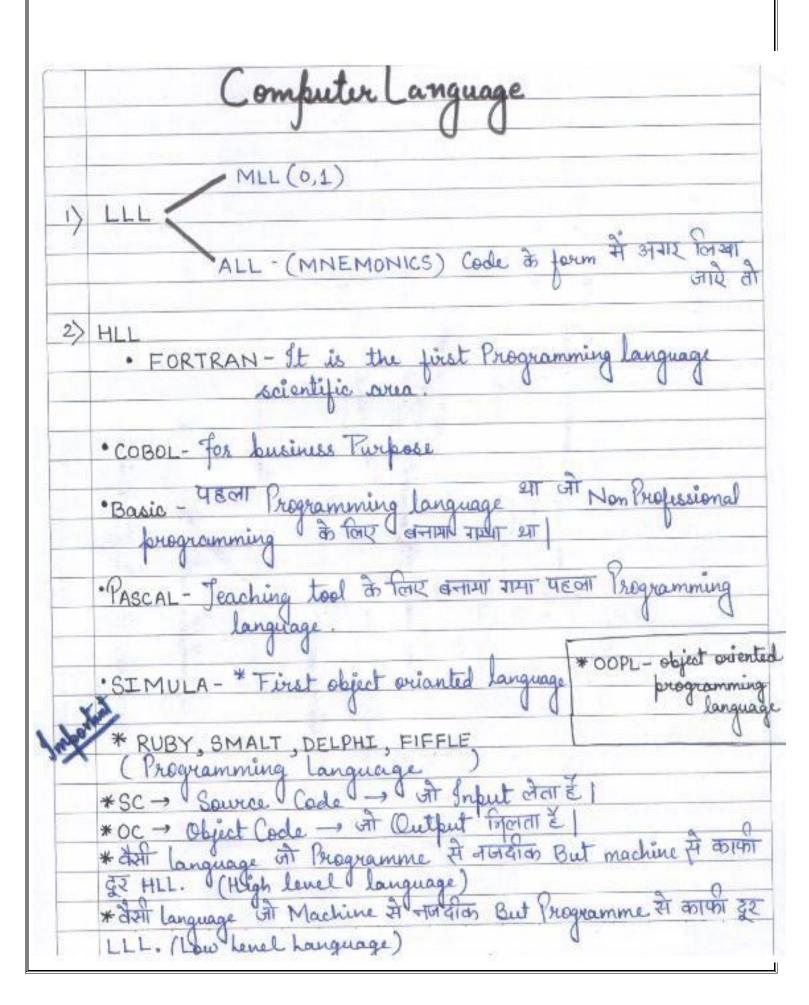
It is a large powerful operating system. Operating at a very high speed used in large business, scientific and government organization while processing the ,if the amount of data is very large to be processed by the processor combination of two or more processor is used to process the data .such type of computer is known as main frame computer.

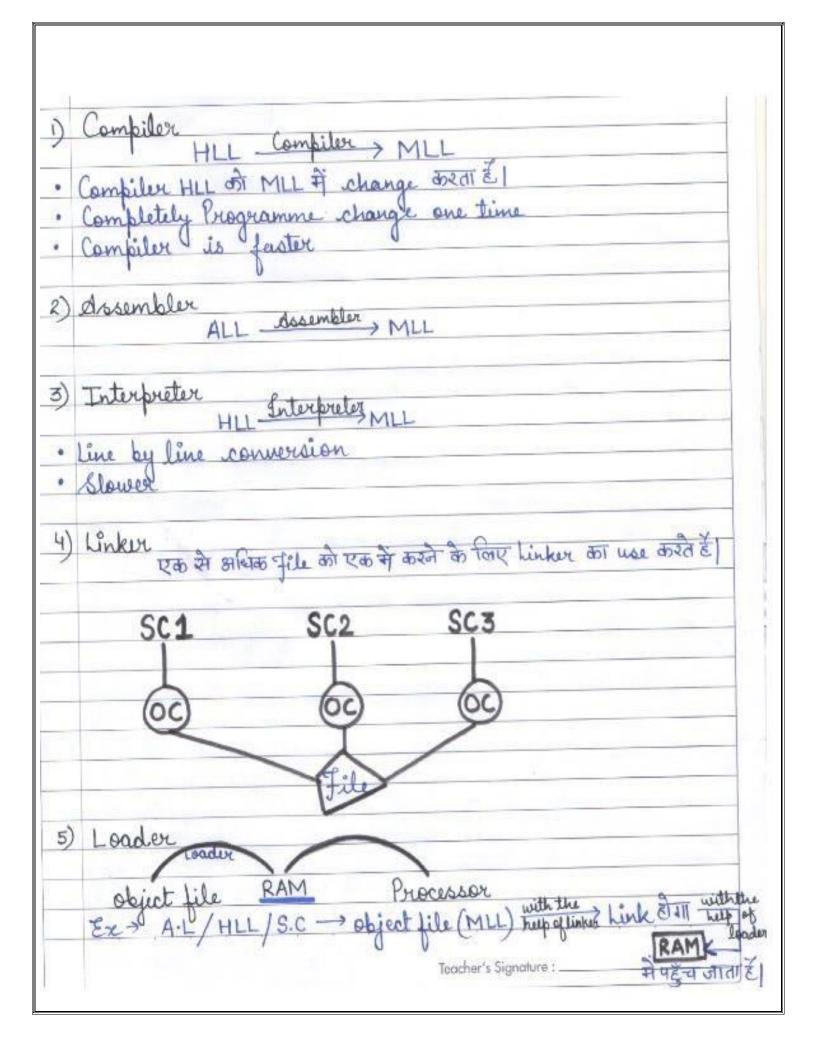
Ex - IBM 308X series, IBM 900 series etc.

Super computer

Super computer are the most powerful system operating at very high .They are capable of handling hundreds of millions of instruction per second .It is the fastest computer introduced the most accurate result in fastest response time.

Ex - Cray-MP, Crayz, SX-2, SX-3R etc.





COMPUTER LANGUAGE

Languages are a means of communication. Just as every language like English, Hindi has its grammatical rules; every computer language is bound by rules known as SYNTAX of that language. The user is bound by that syntax while communicating with the computer system. Computer languages are broadly classified as

1.-Low Level Language

The term low level means closeness to the way in which machine understand. The low level languages are:

A.-Machine Language

This is the language (in the form of 0,s and 1,s, called binary numbers) understood directly by the computer. It is machine dependent. It is difficult to learn and even more difficult to write programs.

B.-Assembly language

This is the language where the machine codes comprising of 0,s and 1,s are substituted by symbolic codes (called mnemonics) to improve their understanding. It is the first step to improve programming structure.

2. High Level Language

You know that low level language requires extensive knowledge of the hardware since it is machine dependent. To overcome the limitation, high level language has been evolved which uses normal English like, easy to understand statements to solve any problems. Higher level languages are computer independent and programming becomes quite easy and simple.

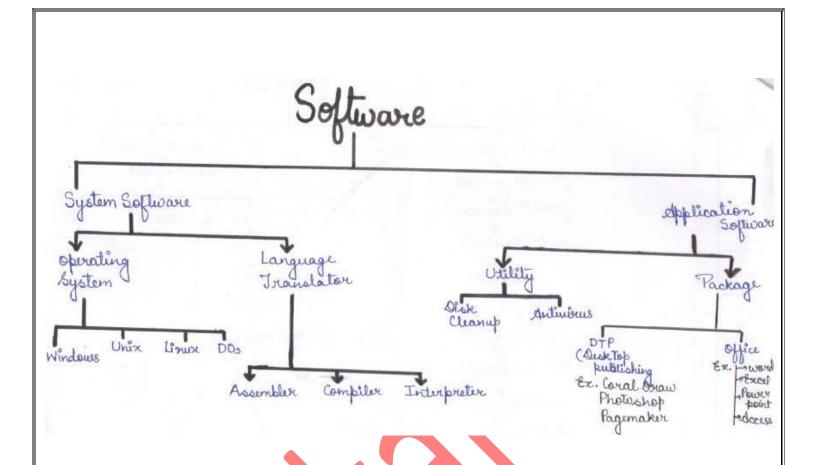
Various high level languages are given below:

- ▶ **BASIC-** (Beginner all-purpose symbolic Instruction code): it is widely used, easy general purpose language. Mainly used in earlier days.
- ▶ **COBOL-** (common business oriented language): A standardized language used for commercial applications.
- ▶ **FORTRAN-**(Formula Translation):-Developed for solving mathematical and scientific problems. One of the most popular languages among scientific community.
- ▶ **C**-Structured Programming Language used for all purpose such as scientific application, commercial application, developing games etc.
- ▶ C++ -Popular object oriented programming language, used for general purpose.

Relationship between Hardware and Software

- ▶ Hardware and software are mutually dependent on each other. Both of them must work together to make a computer produce a useful output.
- ▶ Software cannot be utilized without supporting hardware.
- ▶ Hardware without set of programs to operate upon cannot be utilized and is useless.
- ▶ To get a particular job done on the computer, relevant software should be loaded into the hardware
- A software act as an interface between the user and the hardware.
- If hardware is the 'heart' of a computer system, then software is its 'soul'.

 Both are complimentary to each other.



Software

▶ Software is a set of programs, which is designed to perform a well-defined function. A program is a sequence of instructions written to solve a particular problem.

There are two types of software

▶ System Software ▶ Application Software

System Software

- ▶ The system software is collection of programs designed to operate, control, and extend the processing capabilities of the computer itself.
- System software serves as the interface between hardware and the end users.



Application Software

- ▶ Application software products are designed to satisfy a particular need of a particular environment. All software applications prepared in the computer lab can come under the category of Application software. Application software can be broadly classified into two types
 - 1. Generalized package
 - 2. Customized package

1. Generalized Packages

These are user friendly software create for user, s very general needs such as preparing documents drawing pictures database to manage data/information preparing presentations, play games etc.

It is a group of programs that provide general purpose tools to solve specific problems. Some of the generalized packages are listed below

Word Processing Software

Word Perfect, MS Words, WordStar 🕨

Spread sheet (Data Analysis)

o Lotus123, smart suites, Ms-excel

Presentations

o Presentation graphics, MS-Power Point

Database Management System

o MS-Access, Open Office.org Base, MS-SQL Server, ORACLE

Graphics Tools

O Paint, shop pro, adobe Photoshop

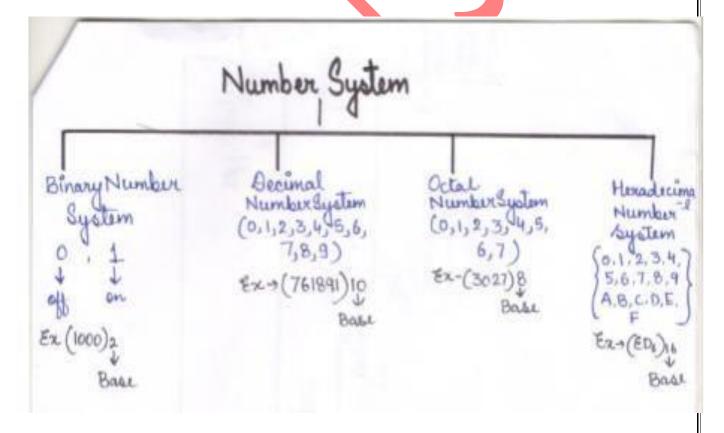
2. Customized packages

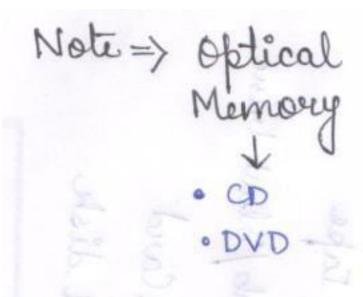
These are the applications that are customized (or developed) to meet the specific requirements of an organization/institution. For

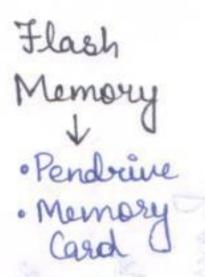


Example: Student information details, Payroll packages, inventory control etc.

These packages are developed using high-level computer language.







A) ALU

B) Memory

C) CPU

D) Control unit

Answer: C

2. What difference does the 5th generation computer have from other generation computers?

A) Technological advancement

B) Scientific code

C) Object Oriented Programming

D) All of the above

Answer: A

3. Which of the following computer language is used for artificial intelligence?

A) FORTRAN

B) PROLOG

C) C

D) COBOL

Answer: B

4. The tracks on a disk which can be accessed without repositioning the R/W heads is

A) Surface

B) Cylinder

C) Cluster

D) All of the above

Answer: B

5. Which of the following is the 1's complement of 10?

A) 01	B) 110	C) 11	D) 10					
Answer	: A							
6. A sect	6. A section of code to which control is transferred when a processor is interrupted is known as							
A) M	B) SVC	C) IP	D) MDR					
Answer :	A							
7. Which	part interprets pr	ogram instructior	ns and initiate contr	ol operations.				
A) Input	B) Stora	ge unit	C) Logic unit	D) Control	unit			
Answer	: D							
8. The bi	nary system uses p	owers of						
A) 2	B) 10	C) 8	D) 16					
Answer :	Α							
9. In ord	er to tell Excel that	: we are entering	a formula in cell, w	e must begin w	vith an operator such			
A) \$	B) @	C) +	D) =	Answer : D				
10. In ho	w many generation	ns a computer car	n be classified?					
A) 3	B) 4	C,	5	D) 6	Answer : C			
11. UNI\	/AC is							
A) Unive	rsal Automatic Cor	nputer	B) Uni	versal Array Co	omputer			
C) Uniqu Answer :	e Automatic Comp A	outer	D) Unv	ralued Automa	tic Computer			
12. The	basic operations pe	erformed by a cor	mputer are					
A) Arithn	netic operation		В) І	ogical operation	on			
C) Stora	ge and relative		D) <i>A</i>	All the above				
Answer	: D							
13. The	13. The two major types of computer chips are							
A) Extern	al memory chip		В)	Primary memo	ory chip			
C) Micro	processor chip		D)	Both b and c				
By:- Panl	kaj sir							

Answer : D		
14. Microprocessors as switching devicesA) First GenerationC) Third GenerationAnswer : D	are for which generation	on computers B) Second Generation D) Fourth Generation
15. What is the main difference between	a mainframe and a sup	er computer?
A) Super computer is much larger than ma	ainframe computers	
B) Super computers are much smaller tha	n mainframe computer	is .
C) Supercomputers are focused to execute power to execute as many programs co		as possible while mainframe uses its
D) Supercomputers are focused to execut power to execute few programs as fast	, , -	possible while mainframe uses its
Answer : C		
16. ASCII and EBCDIC are the popular cha	racter coding systems.	What does EBCDIC stand for?
A) Extended Binary Coded Decimal Interc	nange Code	
B) Extended Bit Code Decimal Interchange	e Code	
C) Extended Bit Case Decimal Interchange	Code	
D) Extended Binary Case Decimal Intercha	inge Code	
Answer : A		
17. Storage capacity of magnetic disk dep	ends on	
A) tracks per inch of surface	B) bits per inch of trac	cks
C) disk pack in disk surface	D) All of above	
Answer : D		
18. The two kinds of main memory are:		
A) Primary and secondary	B) Random and seq	uential
C) ROM and RAM	D) All of above	
Answer : C		

19. A storage area used to store data units can handle data is	a to a compensate for the difference in speed at which the different
A) Memory	B) Buffer
C) Accumulator	D) Address
Answer : B	
20. Computer is free from tiresome	and boardoom. We call it
A) Accuracy	B) Reliability
C) Diligence	D) Versatility
Answer : C	
21. Integrated Circuits (Ics) are relat	ed to which generation of computers?
A) First generation	B) Second generation
C) Third generation	D) Fourth generation
Answer : C	
22. CD-ROM is a	
A) Semiconductor memory	B) Memory register
C) Magnetic memory	D) None of above Answer : D
23. A hybrid computer	
A) Resembles digital computer	B) Resembles analogue computer
C) Resembles both a digital and analogous	ogue computer D) None of the above
Answer : C	
24. Which type of computers uses th	ne 8-bit code called EBCDIC?
A) Minicomputers	B) Microcomputers
C) Mainframe computers	D) Super computer
Answer : C	
25. The ALU of a computer responds	to the commands coming from
A) Primary memory	B) Control section
C) External memory Answer : B	D) Cache memory

26. Chief compor	ient of mist generatio	ii computer was	
A) Transistors		B) Vacuum Tubes and Val	ves
C) Integrated Circ	cuits	D) None of above	
Answer : B			
27. To produce h	igh quality graphics (h	nardcopy) in color, you woul	d want to use a/n
A) RGB monitor		B) Plotter	
C) Ink-jet printer		D) Laser printer	
Answer : B			
28. What are the	e stages in the compile	ation process?	
	dy, system design and		Implementation and documentation
C) Lexical Analysi Answer : C	s, syntax analysis, and	d code generation D)	None of the above
29. Which of the	following IC was used	d in third generation of com	puters?
A) SSI	B) MSI C) L	.SI D) Both a	and b Answer : D
30. The main ele	ctronic component us	sed in first generation comp	uters was
A) Transistors			
A) ITalisistors		B) Vacuum Tubes and	Valves
	cuits		Valves
C) Integrated Circ	cuits	B) Vacuum Tubes and D) None of above	Valves
C) Integrated Circ			Valves
C) Integrated Circ	ninal has		
C) Integrated Circ Answer : B 31. A dumb term A) an embedded	ninal has	D) None of above	memory
C) Integrated Circ Answer : B 31. A dumb term A) an embedded	ninal has microprocessor	D) None of above B) extensive r	memory
C) Integrated Circ Answer: B 31. A dumb term A) an embedded C) independent p	ninal has microprocessor processing capability	D) None of above B) extensive r	memory
C) Integrated Circ Answer : B 31. A dumb term A) an embedded C) independent p Answer : D	ninal has microprocessor processing capability	D) None of above B) extensive r	memory

33. The output quality of a	printer is measured by	
A) Dot per sq. inch	B) Dot per inch	
C) Dots printed per unit tim	ne D) All of the above	
Answer : A		
34. Which of the following	was a special purpose computer?	
A) ABC	B) ENIAC	
C) EDVAC	D) All of the above	Answer : A
35. What was the compute	er invented by Attanasoff and Cliffor	-d?
A) Mark I	B) ABC	
C) Z3	D) None of above	Ans <mark>we</mark> r : B
36. Which of the following	storage devices can store maximum	amount of data?
A) Floppy Disk	B) Hard Disk	
C) Compact Disk	D) Magneto Optic Disk	Answer : B
37. Which computer was copatent?	onsidered the first electronic compu	iter until 1973 when court invalidated the
A) ENIAC	B) MARK I	
C) Z3	D) ABC	Answer : A
38. A physical connection be known as	petween the microprocessor memo	ry and other parts of the microcomputer is
A) Path	B) Address bus	
C) Route	D) All of the above	Answer : B
39. High density double side	ed floppy disks could store of	f data
By:- Pankaj sir		

A) 1.40 MB	B) 1.44 GB	C) 1.40 GB	D) 1.44 MB Answer				
: D							
40. A high quality CAD system uses the following for printing drawing and graphs							
A) Dot matrix printer C) Line printer	· ·	Digital plotter All of the above	Answer : B				
41. Which of the followi	ng is not an input	device?					
A) OCR	В) (Optical scanners					
C) Voice recognition dev	vice D) (COM (Computer Out)	put to Microfilm)				
Answer : D							
42. The accuracy of the approximately	floating-point nu	mbers re <mark>pre</mark> sentable	in two 16-bit words of a computer is				
A) 16 digits	-	digits	Answer : B				
C) 9 digits 43. In most of the IBM P are mounted on a single	Cs, the CPU, the c		ry, expansion slots and active components				
A) Motherboard		B) Daughterboard					
C) Bredboard		D) Fatherboard	Answer : A				
44. In most IBM PCs, the mounted on a single bo			ansion slots and active components are				
A) Motherboard		B) Breadboard					
C) Daughter board		D) Grandmother boa	ard Answer : A				
AE Magnetic dicks are t	ha mast papular r	nadium for					
45. Magnetic disks are t							
A) Direct access	B) Se	quential access					
C) Both of above	D) No	ne of above	Answer : C				
46. A technique used by	46. A technique used by codes to convert an analog signal into a digital bit stream is known as						
A) Pulse code modulation	on	B) Pulse stretcher					

C) Query processing		D) Qu	ieue management	Answer : A		
47. Regarding a VDU, Which statement is more correct?						
A) It is an output device	ce	B) It is	an input device			
C) It is a peripheral de	vice	D) It i	s hardware item			
Answer : C						
48. A modern electro	nic computer i	s a machine	that is meant for			
A) Doing quick mathe	matical calcula	ntions	B) Input, storage, man	ipulation and outputting o	of data	
C) Electronic data pro-	cessing		D) Performing repetitive	ve tasks accurately Answe	er	
: B						
49. When was vacuur	m tube invente	d?				
A) 1900	B) 1906	C) 1910	D) 1880	Answer : B		
50. Which of the following produces the best quality graphics reproduction?						
A) Laser printer		B) Ink je	et print <mark>e</mark> r			
C) Plotter		D) Dot n	natrix printer	Answer : C		

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