

Device: All Parts of Computer which is connected to CPU is called Device, there are three type of Device:-

1. Input Device
2. Storage Device
3. Output Device

Input Device: This device are use for give the instruction in computer memory for further processing, there are following type of Input Device such as-

- 1- Keyboard
- 2- Mouse
- 3- Scanner
- 4- Touch Screen
- 5- Track Ball
- 6- Graphic Tablet
- 7- Microphone
- 8- Magnetic Ink Card Reader (MICR)
- 9- Optical Character Reader (OCR)
- 10- Bar Code Reader (BCR)
- 11- Optical Mark Reader (OMR)

Storage Device: This Device are use for store the data in computer, there are following type of Storage Device available in Market:-

1. HDD- Hard Disk Drive
2. FDD – Floppy Disk Drive
3. CD- Compact Disk
4. DVD – Digital Video Disk
5. PD- Pen Driver
6. MC – Memory Card

Output Device: This Device are use for take only results, there are following type of Output Device:-

1. Monitor
2. Printer
3. Speaker

Two categories of Output Device:-

1. Hard Copy - Printer
2. Soft Copy- Monitor

About Computer Some Words:-

- Computer is an electronics device.
- Father's of Computer is Charles Babbage
- Computer do not understood natural language such as- Hindi, English, Tamil, Urdu etc.
- Fundamental language of computer is Machine Level Language (MLL)
- Machine Level Language is represented by Zero and One
- Zero and One are also called Binary Number System
- Total Number of character used in computer is 0 to 255 (256)
- Each character given an unique code, these code are called ASSCI code
- ASCII stand for American Standard Code for Information Interchange

ASCII Code:

- A To Z = 65 To 90, Where A=65, B=66, C=66, Z=90
- a to z = 97 to 122, Where a=97,b=98,c=99, d=100, z=122
- 0 to 9 = 48 to 57, Where 0=48. 1=49, 2=50, 3=51,4=52, 5=53, 6=54, 7=55,8=56 and 9=57

System Software

System Software embedded with two words

1. Hardware
2. Software

Hardware: Computer hardware refers to objects that you can actually touch, like- disks, disk drives, display, screen, keyboard, printers, boards etc.

Software: Software is a general terms for the various kinds of programs used to operate computers and related devices. In other words It is collection of programs that make a computer workable.

Type of Software

There are three type of Software

1. System Software
2. Application software
3. Development Software

System Software:

System software is computer software designed to operate and control the computer hardware and to provide a platform for running application Software. In other words it is collection of programs that make an interface between compute r& user. System software can be separated into two different categories

1. Operating System
2. Language Software

Operating System:

An operating system (OS) is software that manages computer hardware and software resources and provides common services for computer programs. The Operating system is an essential component of the system software in a computer system. In other words an operating system is the most important software that runs on a computer it manages the computer's memory, process, and all of software & hardware. It also allows you to

communicate with the computer without knowing how to speak the computer language. Without operating system computer is useless.

Function of Operating System:

Your computer operating system manages all of the software and Hardware on the computer. Most of the time, there are many different computer programs running at the same time, and they all need to access your computer's central processing unit (CPU), memory, and storage. The operating system coordinates all of this to make sure each programs gets what it needs.

Type of Operating System:

There are two type of operating system

1. GUI (Graphics User Interface)

In this type of operating system support only Graphics cum command base programs, this is also known as a modern operating system. A GUI lets you use your mouse to click icons, button, and mouse, and everything is clearly displayed on the screen using a combination of graphics and text. Each operating system GUI has a different look and feel, so if you switch to a different operating system it may seem unfamiliar at first. However, modern operating systems are designed to be easy to use, and most of the basic principles are the same. There are following type of GUI base operating system

Windows 95	Windows2000	Windows XP
Linux	UNIX	Vista
Windows 7	Windows 8	Windows 8.1

2. CUI (Character User Interface):In this type of operating system support only command base programs. Ms-DOS is the best example of CUI operating System. It is developed by Microsoft Corporation in USA, 1981.

Language Software: It is collection of programs that is written for convert any language into machine level language. It is also known as Translator. There are three type of Language Software:-

1. Assembler: To Translate Assembly Language into Machine level language.
2. Interpreter: To Translate High Level Language into Machine level language line-by line.
3. Compiler: To also translate high level language into machine level language at the time of execution of programs.

Application software: It is collection of programs that is written for specific task or function such as- Ms-Word, PageMaker, Photoshop, Ms-Paint

Development Software: It is collection of programs that is written for developed a new software such as- .NET, C#, C++, Java, VB, etc.