SAFALTA CLASS™

An Initiative by अमर उजाला

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HARDWARE & SOFWARE

COMPUTER SPECIAL CLASS

SSC CGL / CHSL / RAILWAY / BANKING / DELHI POLICE

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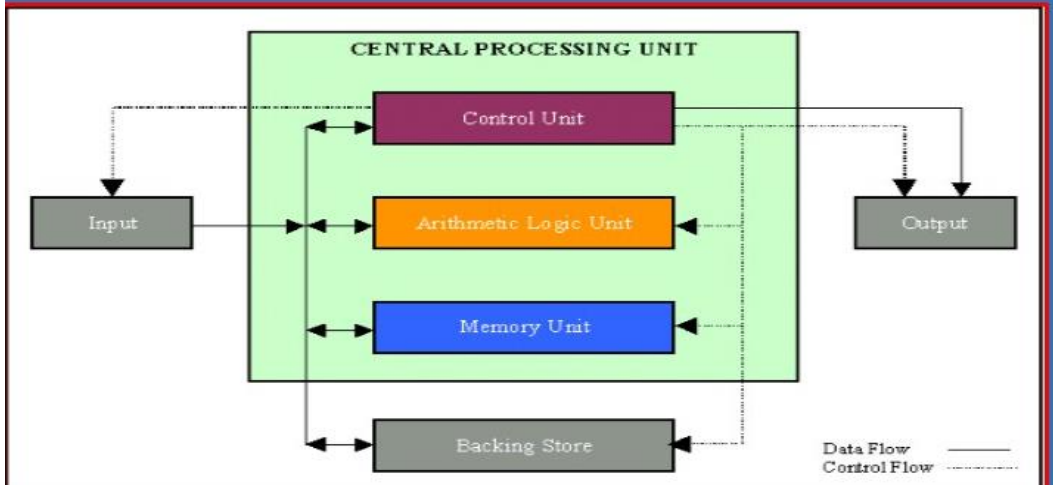
HARDWARE & SOFTWARE

By: Dheerendra Sir

CPU – CENTRAL PROCESSING UNIT

- It is designed to perform arithmetic and logic operations that makes use of small number-holding areas called *registers*.
- Typical microprocessor operations include adding, subtracting, comparing two numbers, and fetching numbers from one area to another. These operations are the result of a set of instructions that are part of the microprocessor design.

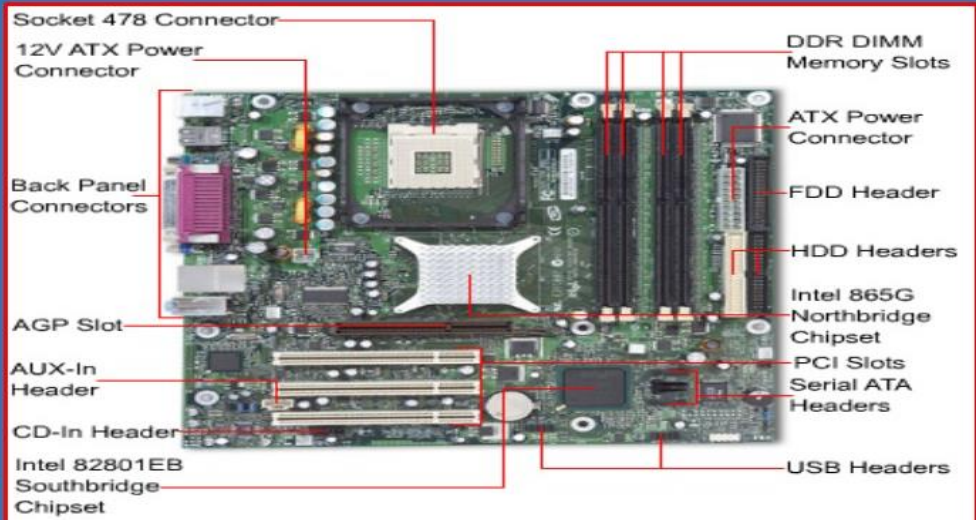


MOTHERBOARD

A **Motherboard** is the physical arrangement in a computer that contains the computer's basic circuitry and components. On the typical motherboard, the circuitry is imprinted or affixed to the surface. :

Components of mother board are :

- The microprocessor
- Memory
- Basic input/output system (BIOS)
- Expansion slot
- Interconnecting circuitry

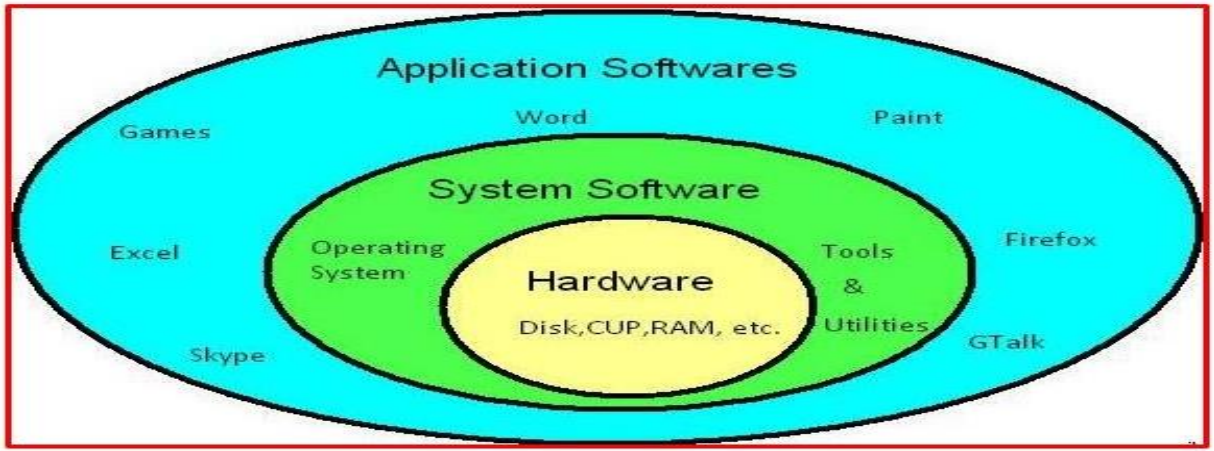


SOFTWARE

- Software is untouchable or intangible part of the computer.
- Software is a set of program that performs related task.

SOFTWARE : TYPES

- **Types of Software**
  - Application Software
  - Systems Software



SYSTEM SOFTWARE

- **System software**

Programs that support the execution and development of other programs. These are compulsory software for the computer system, without which computer can not work.

E.g.- Operating system, compiler, interpreter etc.

SOFTWARE : TYPES

- **Application Software**: Software which is used to do users tasks are called Application Software. Application Software includes programs that do real work for user. Example:

  Adobe Photoshop, Media Players, web browsers, Adobe Reader, Word Processor, Spreadsheet etc.

SYSTEM SOFTWARE : UTILITY SOFTWARE

Utility Software:

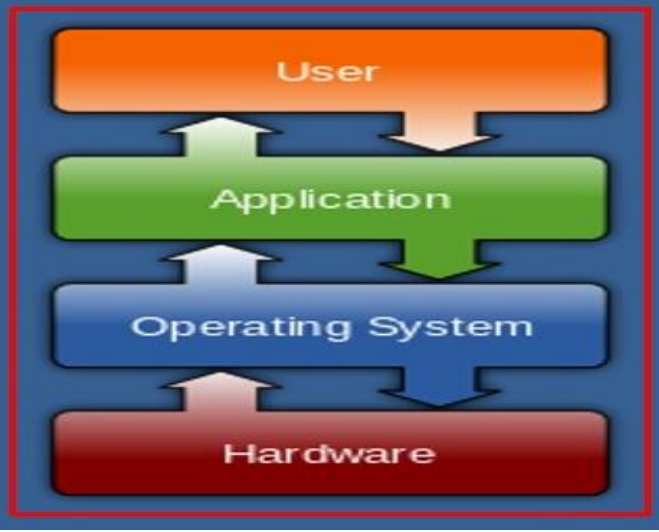
Small and useful programs which support all devices are called utility software.

Some Examples are -

- Device Driver
- Disk defragmentation
- Compression software
- Antivirus etc.

SYSTEM SOFTWARE : O.S.

Operating System: Operating system is a software which acts as an interface between user and the computer hardware.



OPERATING SYSTEM : EXAMPLES

- Windows
- Macintosh
- Linux
- UNIX
- Android

OPERATING SYSTEM : EXAMPLES

- **Windows :** Its widely used O.S. Its associated with Microsoft corp

Inbuilt browser : Internet explorer
First version : windows1.0
Latest version: windows10

MICROSOFT EDGE browser use in window **10**.

OPERATING SYSTEM : EXAMPLES

- **Macintosh:** Mac O.S. is associated with Apple corporation.

  First version :1.0

  Latest version: Yosemite(10.10)

  Inbuilt browser: Safari

  Different versions of MAC: (Cheetah, puma, Jaguar, panther, Tiger, Leopard, Snow leopard, Lion, Mountain lion, Mavericks)

OPERATING SYSTEM : EXAMPLES

Linux:

Linus Torvalds has developed Linux O.S.

It is not associated with any company .

It is an open source software

First version :1.0

Examples: Red hat, Fedora, Ubuntu etc.

OPERATING SYSTEM : EXAMPLES

UNIX:

- UNICS(Uniplexed information and computing system)
- It is written in ‘c’ programming language.
- UNIX is multi user OS contains shell Programming.

OPERATING SYSTEM : EXAMPLES

- **Android :** It is associated with Google corporation.

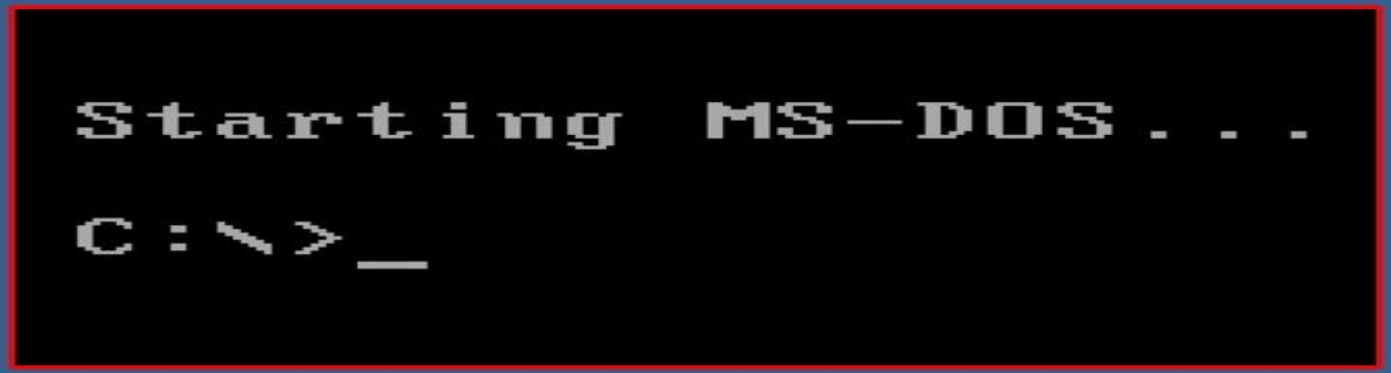
First version: Alpha(1.0)
Latest version: Marshmallow(6.0)

Different versions of Android:
Alpha(1.0),Cupcake, Donut, Eclair, Froyo, Jellybean, Lollipop(5.2),Marshmallow(6.0)

OPERATING SYSTEM : TYPES

- A **single user operating system** only has to deal with the requests of the single person using the computer at that time.

- Eg. MS-DOS, Windows, Android etc..



OPERATING SYSTEM : TYPES

- **Multi-user operating** system allows lots of people to access the resources of the mainframe computer.
- A multi-user operating system 'slices up' the mainframes resources and divides it out to the different users.

Eg.– UNIX,LINUX etc.

OPERATING SYSTEM : TYPES

➢ Single-Tasking Operating System:

A single-tasking operating system can support only one task at a time. In such single tasking environment, the task execution is sequential. Eg. MS-DOS

OPERATING SYSTEM : TYPES

- **Multi-tasking operating system:**

  Multi-tasking means to run more than one program at once.

  This is commonly done when copying a picture from the Internet and pasting it into a document. In this case, the two programs running are the browser and the word processor.

  It is the operating system which manages this process.

  Eg.- Windows XP, Windows Vista etc..

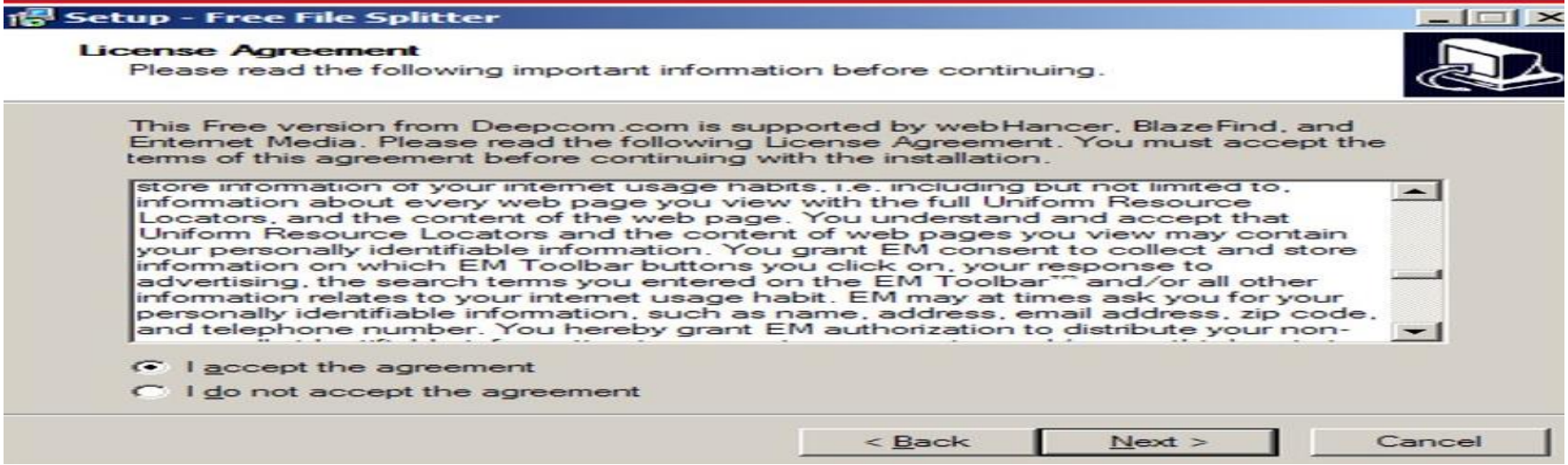
OPERATING SYSTEM : TYPES

- **Network operating system** is a type of multi-user operating system. An operating system that is designed for a server.

- Eg. Windows NT, Windows Server 2000 Windows Server 2003, Window Server 2013.

SOFTWARE LICENCING

- EULA- An End User License Agreement (EULA) is a legal contract between a software application author or publisher and the user of that application.



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