# INTRODUCTION TO SYSTEM SOFTWARE

# Software :-

It is set of program associated with the computer. Without s/w computer is just like a car without petrol or Tv without film.

There are two (2) types of Software.

1) Application Software.
2) System Software.

# System Software :-

By System, we mean the Computer Systems. The user of a computer system at his disposal a large amount of Software provided by the manufacturer. Much of this S/w will be program which contribute to the control & performance of the computer system.

In general a computer system S/w performs one or more of the following functions.

a) Support the development of application s/w.

b) Support the execution of application s/w.

c) Monitors the effective use of various H/w such CPU, Memory, Peripheral etc.

d) Communicate & controls the operation of peripheral devices such as:- Printer, Disk, Tape etc.

Hence, the System s/w makes the operation of a computer more effective & efficient.

The programs included in System s/w are called <u>System Program</u> & the programmers who prepare system software are said to be <u>System Programmers</u>.

## <u>Types of System Software :-</u>

## <u>Operating System (O.S) :-</u>

Every computer has an O.S s/w, which takes care of the effective & efficient utilization of all the H/w & s/w component of the Computer System.

Example:- Win' XP, Linux, Unix.

## Programming Language Translators :-)

Programming language Translators are System S/w which transform the instructions prepared by programmers in a programming Language into a form which can interpreted & executed by a computer system.
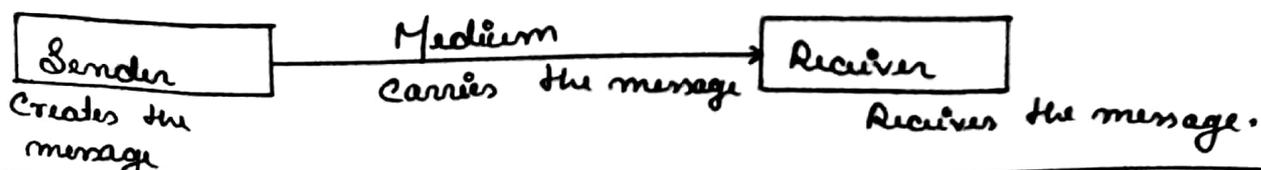
Example:- Assembler, Compiler, Interpretor.

## Communication Software :-)

In a Network environment (where multiple computer are interconnected together by communication N/w). Communication S/w enables transfer of data program from one computer to another.

Example:-

1) Sender (which create the message to be transmitted).

2) Reciver (which recives the messages).

3) Medium (which carries the message).

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┌──────────┐      Medium              ┌──────────┐
│ Sender   │ ───carries the message──→│ Reciver  │
└──────────┘                          └──────────┘
Creates the                           Recives the message.
message
```

## Utility Program (Also known as Utilities)

Are set of programs which help users in System Maintenance task & in performing tasks of routine nature.

Some task commonly performed by utility program include formatting of hard disk or floppy disk, taking backup of files stored on Hard disk, Sorting the record stored in a file.

## Application S/w (or)

Application programs may be provided by the computer manufacturer or supplier but in many cases the user produces his own application program called User-program.

Example:-

    Payroll, Stock control etc.

Some common Application S/w are :-

* Word processing s/w.
* Spreadsheet S/w.

* Database Software.

* Graphics Software.

* Personall Assistance S/w.

* Education S/w.

* Entertainment S/w such as Video game.