



Chapter
4

COMPUTER SOFTWARE



SOFTWARE

Computer Instructions or data, anything that can be stored electronically is **Software**.

Examples:-

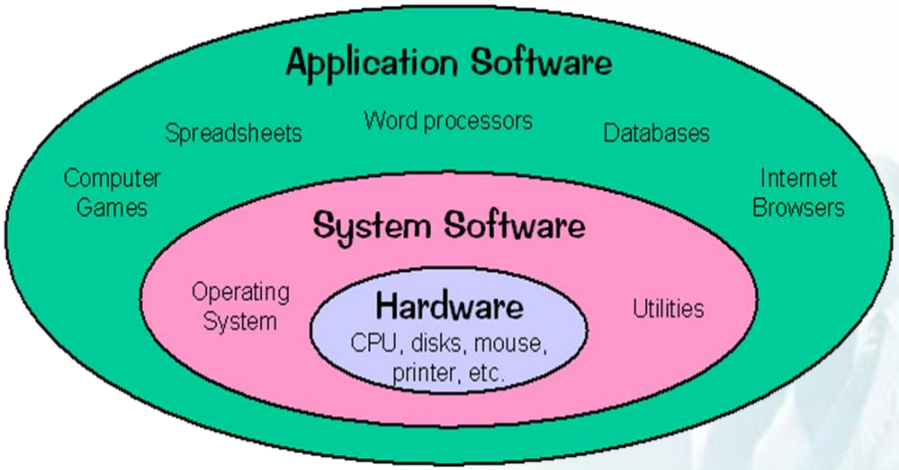
Ms word, excel, power point spread sheets, library management system etc.





TYPES OF SOFTWARE

- System Software
- Application Software





SYSTEM SOFTWARE

- The System Software consist of the Operating System and all the utilities that enable the computer to function.
- System software actually controls the hardware so that application software can perform any action or task.

Example:

Operating Systems, Compiler, Loader, Linker, Interpreter and etc



Types of System Software

- Operating System
- Utilities
- Device Drivers
- Language Translators



APPLICATION SOFTWARE

Application Software includes programs that do real work for user.

Example:

Payroll systems, Inventory Control, Manage student database, Word Processor, Spreadsheet and Database Management System etc.,



APPLICATION SOFTWARE

- Categories of Application Software
- Types of Application
- Forms of Application Software



Categories of Application Software

- Business Software
- Graphic & Multimedia
- Home / Personal / Education
- Communication





Types of Application Software

- Proprietary
- In-house
- Contract
- Off-the-shelf
- Customized package



Forms of Application Software

- Custom Software
- Web Application
- Open Source
- Shareware
- Freeware
- Public-domain Software



APPLICATION SOFTWARE

- Actually the application software consists of programs that are designed to make users more comfortable or productive to assist personal tasks
- The application software is present on computer hard disk
- Application software can also be stored on CDs, DVDs, and flash or keychain storage devices



Type Of Application Software

Proprietary

- Proprietary software is a licensed software under exclusive legal right of owner.

In-house

- In In-house software we develop application with the help of company resources

Off-the-shelf

- An existing software program that can be used without any changes expected.

Contract

- The software which is developed for a specific company for their requirement.



Form Of Application Software

- **Package software**

  A software which is sold in a bundle due to similar function of programs.

- **Example**

◦ Microsoft office, Google Chrome, Adobe Photoshop









CUSTOM SOFTWARE

This is software which is specially made for an organization as per their requirement.



<u>Example</u>

Attendance system

Security code system.





WEB APPLICATION

A web application is any application that uses a web browser.

Example

Google docs
Drop Box







OPEN SOURCE SOFTWARE

- Open source software is made available to every one and can be change, modify and distribute to public without any notification.
- Example

I. Linux
II. Moodle
III. Wordpress
IV. Drupal





FREE WARE

Free ware is the software that is freely available to public but author has a copy right, means that you can only use it ,not sell it.

Example

Antivirus
Skype
Adobe Acrobat









SHARE WARE

Share ware is actually delivered free of charge but some time the owner ask for money to get registered, so that they can send updates in future. It can be copied but cannot be sold.

Example

Screenplay

WinZip







PUBLIC DOMAIN SOFTWARE

Public domain software is totally free and it is not copyrighted plus it have no restriction

<u>Example</u>

SQlite

Blast

I2P









SYSTEM SOFTWARE

- In System software programs are designed to operate, control and enhances the processing capabilities of the computer
- System software is developed by computer manufacturer in low level language
- It also helps hardware components to work together and provide support for the development and execution of the application software
- Programs which are included in system software package are known as system programs and the programmers who develop those programs are known as system programmer

(Reference: wikipedea & itc lectures)



Types of System Software

Operating System

An operating system is software which manages computer hardware and software resources. It also provides common services to computer programs.

The operating system is an essential component of the system software in a computer system.

Application programs are dependent on operating system to function





UTILITIES

- Utilities software is system software which is manufactured to help, analyze, configure, optimize or to maintain a computer.

- It also helps in maintenance and problem solving of a computer.



UTILITY PROGRAMS

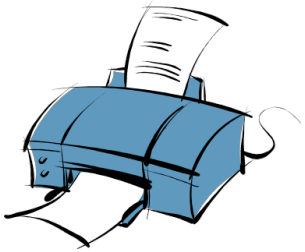
- Hardware utilities
- Virus-detection and recovery utilities
- File-compression utilities
- Spam and pop-up blocker utilities
- Backup
- Uninstall

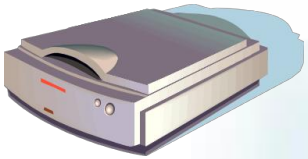




DEVICE DRIVERS

- Device driver is actually a communication device between device and computer
- It loads every time in memory
- When a new device is added the driver should be installed in order to run the program









FEATURES OF SYSTEM SOFTWARE

- Close to system
- Fast in speed
- Difficult to design
- Difficult to understand
- Less interactive
- Smaller in size
- Difficult to manipulate
- Generally written in low level language





THANK
YOU

COMPUTER SOFTWARE