

Software

- The <u>software</u> or computer program is the instructions that makes the computer work to do a task.
- <u>Software</u> is stored either on your computer's hard disk, CD-ROM, DVD or on a diskette (floppy disk) and is loaded from the disk into the computers RAM when required.

Types of Software

- System software
 - Operating System (OS) Software
 - Utilities
- Application Software



Operating systems software (OS)

- It is a special type of program which is used to control or operate the computer.
- It is loaded automatically when you start your computer.
- OS is a link between the hardware and the user of computer.
- OS controls other hardware devices of computer.
 - Input devices
 - Output devices
 - External ports
- The operating system allows you to use the advanced features of a modern computer.
- Operating software is necessary not only for hardware but also for other software.
- OS are regularly updated and new versions and Service Packs are released by the companies after removing problems/bugs.

Types of Operating System

- Microsoft (MS) Windows
- Apple Mac OS
- Linux

















Utilities

- Utilities are programs which either
 - improve the functioning of the operating system
 - supply missing or additional functionality.



Applications software

- These software help us to solve some specific problems of daily life and make life easy for us.
- We use theses software after the operating system has been loaded.
- These software are for general purpose usage.
- Application Software must be compatible with OS.
- These are easy to learn and use.



Types of Application Software

- Word Processing
- Spreadsheet
- Presentation
- Database
- Desktop Publishing
- Photo Editing
- Web Browsing
- Email
- Gaming

















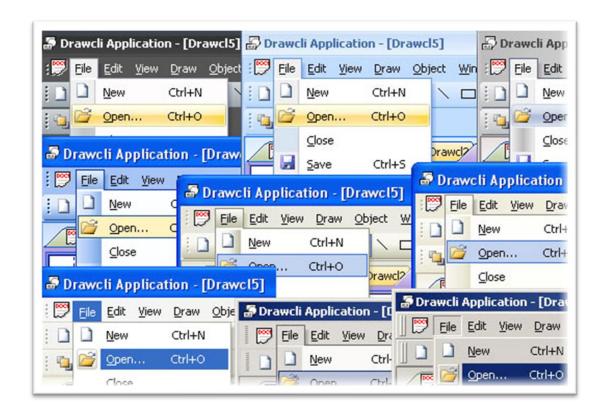
Graphical User Interface (GUI)

- A <u>Graphical User Interface (GUI)</u> is simply an additional part of the operating system that displays windows and drop-down menus and enables to control or operate computer using a mouse.
- Examples of operating system that use a GUI include:
 - Windows
 - Linux GUI



Main Advantages of Using a GUI Interface

- All programs look similar.
- When you switch from a program to another program, you will easily operate and work in that program.
- Application programs work in the same way as the underlying operating system.
- The GUI also allows programmers to easily write consistent looking programs.



Word Processing

- In these applications, we can type text, format, print or save as a document/file.
- These are used to write letters, documents, etc.
- Common examples are MS Word, Word Perfect etc.

Spreadsheet

- These applications allow text, numbers and calculations to be entered in the form of rows and columns.
- Common examples are MS Excel

Database

- These applications store large amount of data which can be used and manipulated as per requirements.
- Common examples are MS Access, Lotus Approach









Desktop Publishing

- These applications enables user to create drawings, graphics and text in posters, newsletters and Ads etc.
- Common examples is MS Publisher, Adobe Photoshop etc.

Presentation

- These applications allow to make presentations/slides to show on projector.
- Common examples MS PowerPoint etc

Photo editing

- These applications enables to edit photos and apply many features.
- Common examples is Photo Impact.







Web Browsing

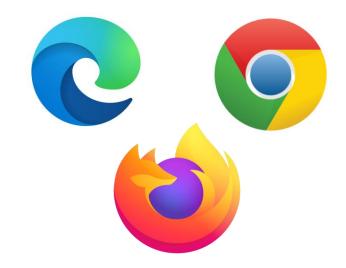
- These applications allows to access/view, download and search information on the internet.
- Common examples are MS edge, google Chrome, Firefox etc.

E-mail

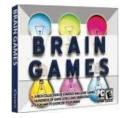
- E-mail applications allow user to send and receive email messages and attachments.
- Common examples is MS Outlook etc

Gaming

 These applications enables user to play video games on a PC.

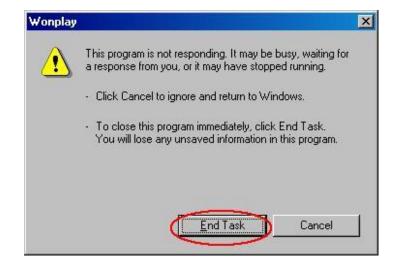






Problem Solving

- Any problem can occur anytime during the use of computer.
- Problems occur due to operator/user error or due to any problem with hardware or software.
- Due to these problems, screen may be blank, computer may be frozen or any application may not respond.
- Computer will inform about these errors and gives some instructions to solve these problems.
- A message like this may appear.



- You can wait to solve the error or you can end the program but in this case all un-saved data will be lost.
- In case of any hardware problem, check all the cables and connections,
- Check the required driver or software to operate the hardware.
- Contact IT support Department to solve the problem.

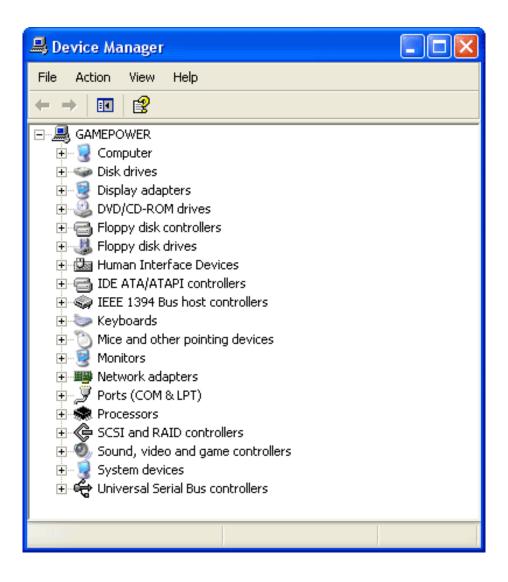




Managing the System

Device Manager

- Device Manager shows all information about the hardware components of the computer.
- In case of any hardware problem, check the Device Manager.
- We can also troubleshoot any hardware problems from Device Manager.



Control Panel

 We can configure computer and manage other hardware parts and devices like printers, modems, network etc are managed from Control Panel.



Task Manager

- Any software that is currently running can be viewed and managed by using Task Manager.
- Task Manager may be displayed by pressing (Ctrl + Alt + Del) keys together.

