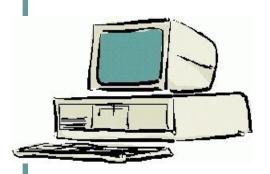
AL-HIKMAH UNIVERSITY COLLEGE-ENGINEERING CYBERSECURITY AND CLOUD COMPUTING TECHNOLOGIES



THE FUTURE IS TECHNOLOGY

BY: ASST. LECT. ZAKRIA B. ALI

What is a Computer?



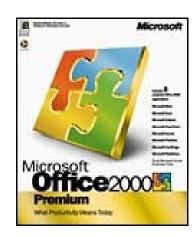
An electronic device that stores, retrieves, and processes data, and can be programmed with instructions. A computer is composed of hardware and software, and can exist in a variety of sizes and configurations.

Hardware & Software

The term hardware refers to the physical components of your computer such as the system unit, mouse, keyboard, monitor etc.



The software is the instructions that makes the computer work. Software is held either on your computers hard disk, CD-ROM, DVD or on a diskette (floppy disk) and is loaded (i.e. copied) from the disk into the computers RAM (Random Access Memory), as and when required.



Types of Computers

Mini and Mainframe Computers

Very powerful, used by large organisations such an banks to control the entire business operation. Very expensive!



Personal Computers

Cheap and easy to use. Often used as stand-alone computers or in a network. May be connected to large mainframe computers within big companies.



Input Devices --"How to tell it what to do"

-A keyboard and mouse are the standard way to interact with the computer. Other devices include joysticks and game pads used primarily for games.

Output Devices "How it shows you what it is doing"

-The monitor (the screen) is how the computer sends information back to you. A printer is also an output device.

INPUT DEVICES

The Mouse

Used to 'drive' Microsoft Windows

The Keyboard

The keyboard is still the commonest way of entering information into a computer

Tracker Balls

an alternative to the traditional mouse and often used by graphic designers







INPUT

DEVICES

Scanners A scanner allows you to scan printed material and convert it into a file format that may be used within the PC

Touch Pads

A device that lays on the desktop and responds to pressure

Light Pens

Used to allow users to point to areas on a screen

Joysticks

Many games require a joystick for the proper playing of the game



DUTPUT

DEVICES VDU

The computer screen is used for outputting information in an understandable format

Printers

There are many different types of printers. In large organizations laser printers are most commonly used due to the fact that they can print very fast and give a very high quality output.





DUTPUT

DEVICES

Plotter's plotter is an output device similar to a printer, but normally allows you to print larger images.

Speakers

Enhances the value of educational and presentation products.

Speech synthesisers

Gives you the ability to not only to display text on a monitor but also to read the text

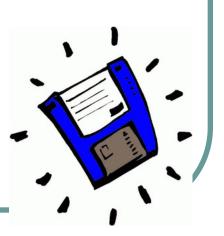
to you

Storage Devices "How it saves data and programs"

-Hard disk drives are an internal, higher capacity drive which also stores the operating system which runs when you power on the computer.

-"Floppy" disk drives allow you to save work on small disks and take the data with you.





Hard Disks

Speed:

Very fast!

The speed of a hard disk is often quoted as "average access time" speed, measured in milliseconds. The smaller this number the faster the disk.

Capacity:

Enormous! Often 40/80 Gigabytes. A Gigabyte is equivalent to 1024 Megabytes.

Cost:

Hard disks costs are falling rapidly and normally represent the cheapest way of storing data.

Diskettes (Floppy Disks)

Speed:

Very slow!

Capacity:

Normally 1.44 Mbytes.

Cost:

Very cheap.

