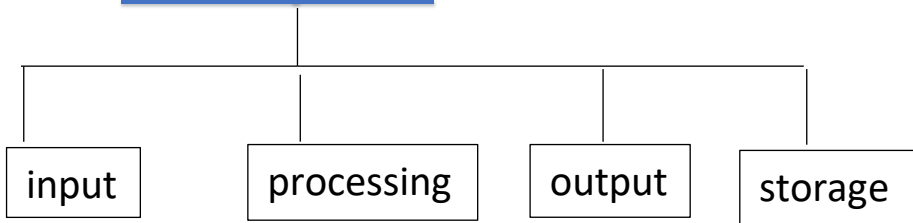




Chapter 1

A computer



Data and information

Image, document

simple complex

Letters & numbers

photographs

There are 2 kind of computer

Analog

Many values

Digital

Fixed values

Computer Hardware

Turns raw Data into usable information

1 Hardware peripherals

input

Keyboard + mouse

output

Monitors + printers

2 Center processing unit

CPU

- Attached to a circuit board
- Covered in tiny electrical circuits
- Quickly carry information to allow the computer do arithmetic

3 Random access memory

RAM

- It's near to the CPU
- It allows the CPU to quickly find Data it works with
- RAM stores Data only when the computer is on

bit = 0 or 1
8 bits = 1 Byte
1 gigabytes = over 1 million Byte
1 tb = 1000 gigabytes

4

Secondary storage

- Store Data even when the computer is off
- Such as a CDs, flash drives , hard drives , memory card and cloud storage

What is the best type of storage ? why ?

- The best is th hard disk
- Can store more than 30 terabytes

Connection types

Serial ports

Multiple device ports

Ethernet

SCSI + USB

Connect computers to the modems for internet access

Connect several peripherals to the computer at one time. And move Data faster than Serial ports .

SCSI
Small Computer Systems Interface

USB
Universal Serial Bus

USB cable and port



ComputerHope

Computer

software

Includes all the programs that tell a computer what to do and how

hardware

Includes all the physical pieces of a computer

System software

- helps the computer work properly

Operating system

Keeps things running smoothly by allowing the hardware devices to communicate with one another

Utility software

Does maintenance and repair jobs that the operating system cannot do itself

Application software

- Helps with tasks such as writing a paper or making graph

Four main categories of application software

- Productivity software helps people be more productive at work
- Graphics software makes it possible to draw, paint, and touch up photos
- Communication software allows computers to connect to the internet and send e-mail
- Home, education, and entertainment software helps people do things such as manage their money or learn a new skills