COMPUTER SKILLS

MAIN COMPUTER COMPONENTS

HARDWARE

Refers to the physical elements of a computer

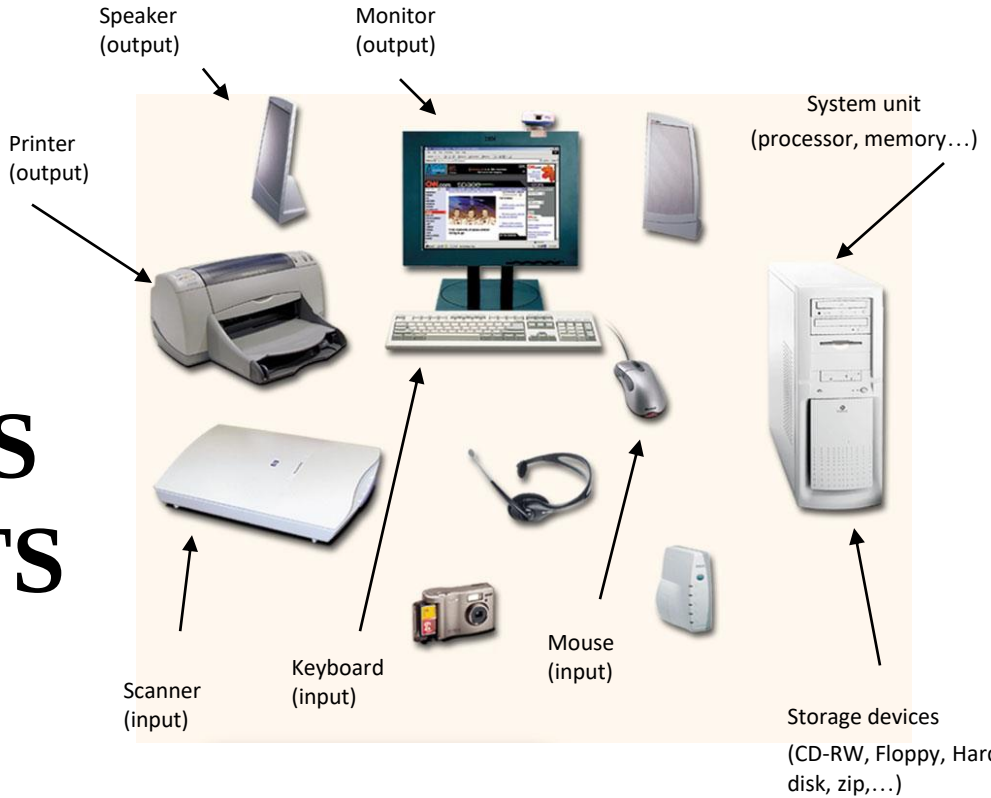
SOFTWARE

Refers to the things which activates the physical components.

Hardware and software are interconnected

HARDWARE CONSIST OF 5 UNITS :

1- INPUT UNITS
2- OUTPUT UNITS
3- CPU UNIT
4- MEMORY UNITS
5- STORAGE UNITS



HARDWARE CONSIST OF 5 UNITS :

1 INPUT UNITS

Refers to the elements that's enter the data to the computer whether the data is a text , image, sound or signal

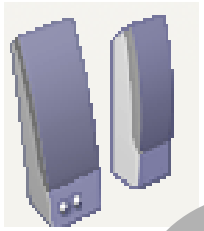
such as : mouse , keyboard , scanner , camera , touch screen , mic …etc.

HARDWARE CONSIST OF 5 UNITS :

❷ OUTPUT UNITS

Refers to the elements that's output the data outside the computer

such as : screen(monitor) , speakers , printers , projector …etc.

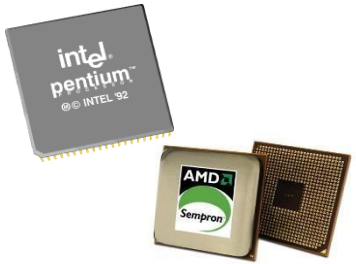


HARDWARE CONSIST OF 5 UNITS :

❸ CPU UNIT (Central Processing Unit)

1) ALU (Arithmetic Logical Unit) : that implement the logical and arithmetic operations
2) Control Unit : that control the computer operations and processes

Speed CPU Unit is : GHz (Gigahertz)



HARDWARE CONSIST OF 5 UNITS :

4 MEMORY UNITS

RAM
(Random Access Memory)

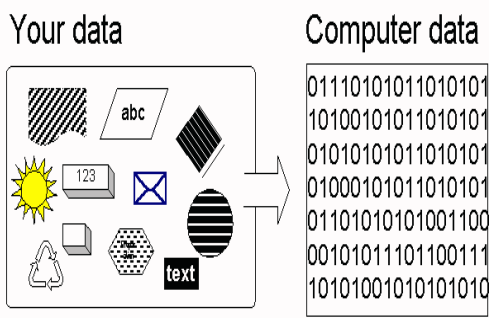
- *Save the data and information temporarily during work on computers*
- *Lose the data and information once blackout , so you need to save your work before the computer turn off*
- *We can deal with it and modify it's data*

ROM
(Read Only Memory)

- *Save the basic data and information that the computer need at startup*
- *Doesn't lose the data and information if blackout or the computer turn off*
- *Specialist Programmer can modify it's data but we as a normal user we can't*

MEMORY UNITS

Computer deals with Binary Digit System so all the characters and numbers represented and stored inside the computer using 0 and 1 (consist of 8 numbers for each one called Byte ..)



- Bit (0 or 1).
- Byte = 8 Bits.
- Kilo Byte (KB) = 1024 Byte. $=2^{10}$
- Mega Byte (MB) = 1024 KB= 1024*1024 Byte $=2^{20}$
- Giga Byte (GB) = 1024 MB= 1024*1024*1024 Byte $=2^{30}$
- Tera Byte (TB) = 1024 GB $=2^{40}$

HARDWARE CONSIST OF 5 UNITS :

5 **STORAGE UNITS**

INTERNAL

(Hard Disk)

EXTERNAL

(External Hard Disk)

(Floppy Disk)

DVD , CD-ROM

USB

STORAGE UNITS

- **Internal Storage :** ***(Internal Hard Disk)***
  higher capacity drive which also stores the operating system which runs when you power on the computer

Internal HARD DISK

- **External Storage :**
  - Floppy Disk Drive (FDD)
  - Compact Disk Drive (CD)
  - Digital Video(Versatile) Disk (DVD)
  - External Hard Disk (HD)
  - Flash Disk

FLOPPY DISK

CD

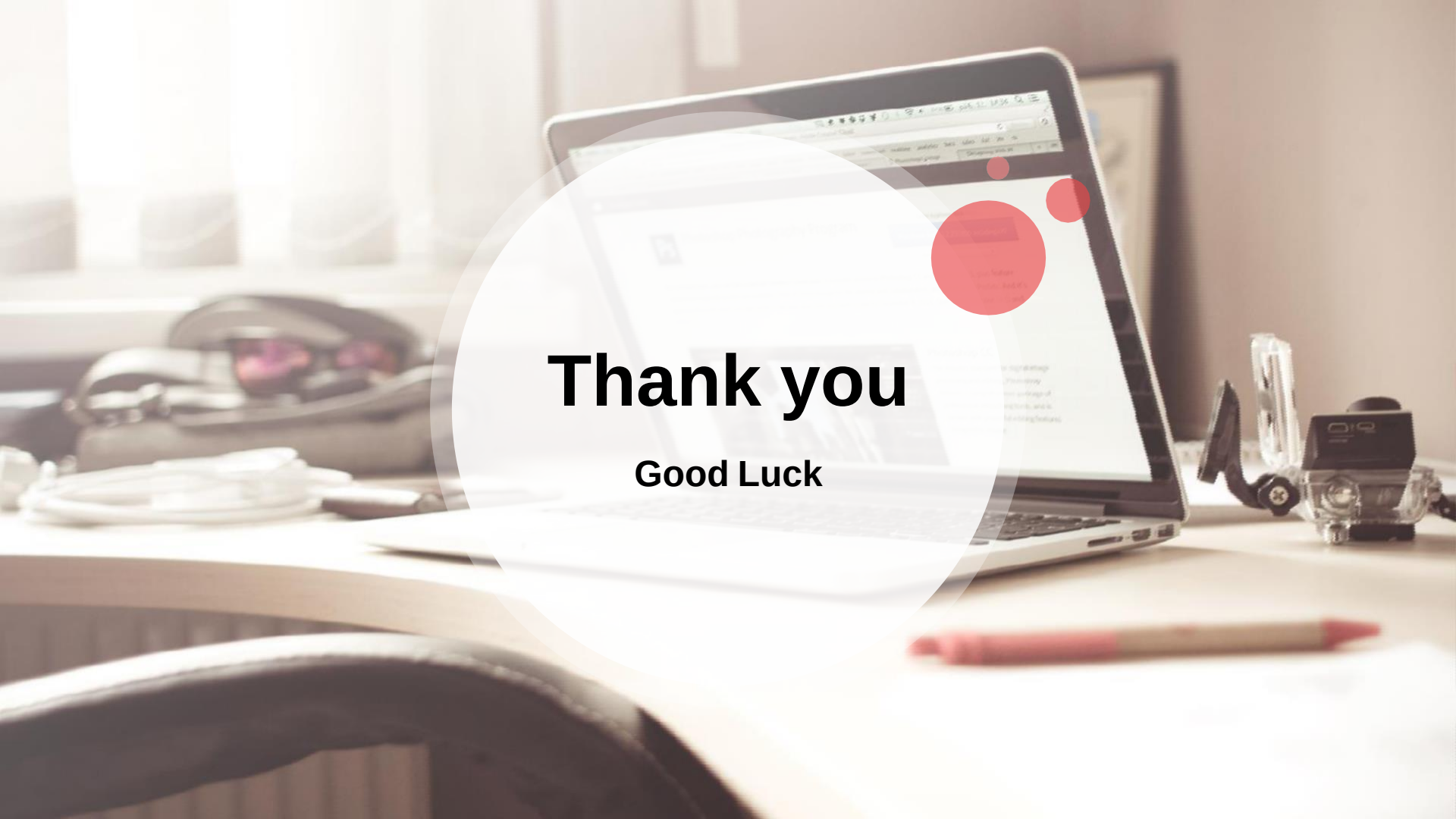
External HARD DISK

Flash DISK

COMPUTER PERFORMANCE

Depends on 3 things :

1. **RAM Size**
2. **HardDisk Size**
3. **CPU Speed**


Thank you
Good Luck