

# ***Introduction in Computer Science***

*Computers Types :*

- ***MicroComputers***
- ***Main Frames***
- ***SuperComputer***

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## ***MicroComputer***

- **The Most Used**
- **The Cheapest**
- **The Most Portable**
- **Design for Homes and Offices**

**Types :**

- 1- Desktop computers**
- 2- Laptops**
- 3- Gaming Consoles**
- 4- sound and navigation systems of Cars**
- 5- smartphones**
- 6- Tablets**
- 7- Calculators**

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## ***Main Frames***

***can store a huge amount of data***

***a large machines must be in air-conditioned Room***

***Designed for the Large Organization as:***

- × **Health Institution**
- × **Banks**
- × **Education Institution**

# ***SuperComputers***

- *The Most Powerful*
  - *Used for Research and Exploration*
  - *Used for Personalized Medicine , Space Explortion, earthquake studies and Nuclear Weapons Testing*
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## **Introduction to Computers**

**Computer :** is an electronic device that stores or retrieves data

**Computer :** Its composition is divided into two components

***1- HardWare***

***2- Soft Ware***

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## **HardWare**

is the Physical Components in the Devices and it is  
4 Sections

**1- Inputs Units**

**2- Outputs Units**

**3- Storage Units**

**4- System Units**

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## **1- Inputs Units**

are Devices allow the Users to enter any data and the Devices as :

**1- Keyboard**

**5- Scanner**

**2- Mouse**

**6- JoySticks**

**3- Touchpad**

**7- Light pen**

**9- WebCam**

**4- Microphone**

**8- Bar code reader**

## 2- Outputs Units

are devices that allow information to display in a human readable form As :

**1- Printers    2- Speakers    3- Projectors    4- Monitors**

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### **1- Printers**

is an output device that prints information on paper.

### **2- Speakers**

is the device that outputs sound from the computer.

### **3- Projectors**

is an optical device that projects an image or moves images onto a surface.

### **4- Monitors**

- × the main output device of a computer.
- × Display size is measured in diagonal inches.
- × Monitors are formed as a matrix of pixels.
- × pixels are the smallest unit that can take color.
- × The sharpness of the image depends upon the number of pixels.
- × The display quality is measured in resolution
- × resolution is the number of pixels in the display rows and columns
- × The aspect ratio of a display is the ratio of its width to its height
- × standard aspect ratio (4:3) and widescreen (16:9).

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## ***3- Storage Units***

is any computing hardware used for storing and moving data files temporarily and permanently and can be internal or external to a computer.

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### ***Types of Storage Units***

*1- Hard Disk Drive    2- Compact Disk    3- USB Flash Drive*

