

**Tikrit University**

**College of Computer Sciences & Mathematics**

**Computer Science Department**



***Computer Organization***

***First Stage  
Lecture -6***

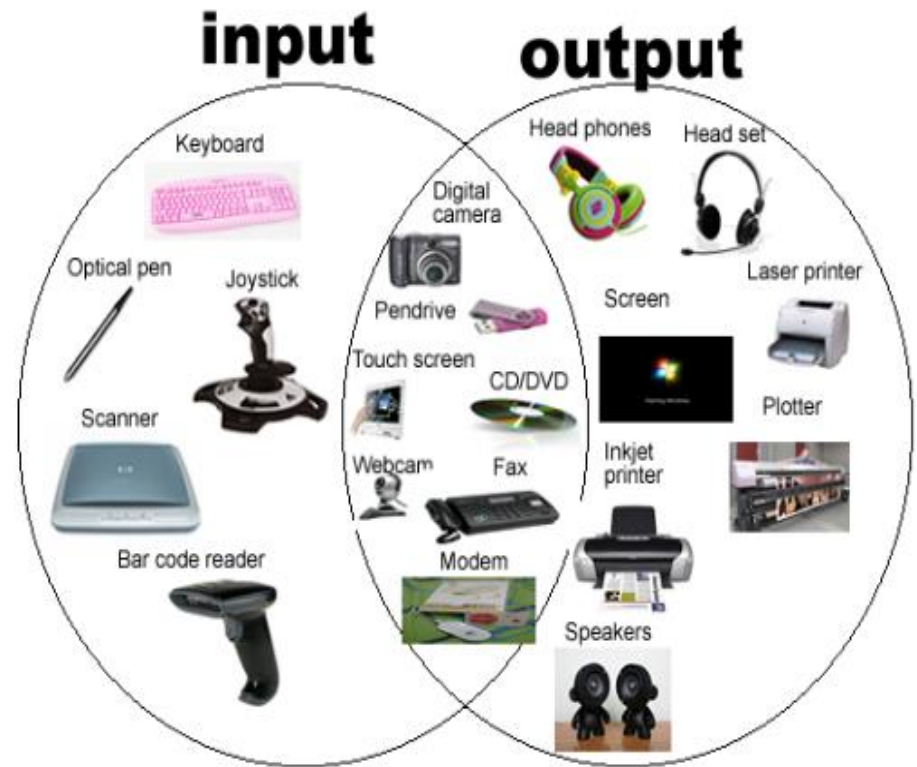
***Lecturer  
Nayif Mohammed***



# External Hardware Computer Components

External computer components connect to a computer system from **OUTSIDE**. They are not necessary for the system to function but make our experiences easier or better. We will discuss the following:

- **Input Devices** : used to get data into a computer.
- **Output Devices** : used to get information out of a computer





# Input Devices

- Input devices are pieces of hardware that get **raw data into the computer** ready for processing.
- Processing involves taking raw data and turning it into more useful information.





# 1 Keyboard

- Keyboard is the most common and very popular input device which helps in inputting data to the computer.
- The layout of the keyboard is like that of traditional typewriter, although there are some additional keys provided for performing additional functions.





# 2 Mouse

- *Mouse is most popular pointing device .*
- *It can be used to control the position of cursor on screen, but it cannot be used to enter text into the computer.*
- *Easy to use and Moves the cursor faster than the arrow keys of keyboard.*
- *Generally it has two buttons called left and right button and scroll wheel is present between the buttons.*





# 3 Scanner

- ◆ **Scanner** is an input device which works more like a photocopy machine.
- ◆ Scanner captures images from the source which are then converted into the digital form that can be stored on the computer or on the disc.





# 4 Microphone

- Microphone is an input device to input sound that is then stored in digital form.
- The microphone is used for various applications like adding sound to a multimedia presentation or for mixing music.





# 5 Touch Screen

- Touch Screen is the easiest way to input data into computer.
- Touch Screen allows the user to select item by touching the screen at the suitable spot.
- The user's finger become the input device for operating touch screen.







# 6 Digital Camera

- Digital camera is one of input device that hold a lot of photo which can be transferred easily into the computer.
- A digital camera takes a photograph by using sensors to capture the light that comes in through the lens.
- A digital camera also has software that lets you delete unwanted photos while they are still stored in the camera.

