ICT

First Semester

Summary Sheet #3

Class: Grade 8   **Teacher: Rana Mukattash**

As you have studied that any computer systems consist of **hardware** and **software**, the hardware is either **internal** or **external**.

The external hardware is categorized into **Input** or **output**.

Input device is a device that sends data to a computer.

Keyboard / keypad

Mouse

Joystick / controller

Scanner

Camera

Microphones

Output device is a device used to send data from the computer to the user

Monitor

Projector

Printer

Speaker / headphones

> ***An operating system***: is a set of programs that controls how the computer interacts with the users and the external devices (Such as keyboard, monitor, mouse).

Examples of software: Windows, Unix, Macintosh, iOS, Android.

Users interact with the operating system through the **user interface.**

> ### There are four main types of user interfaces:
>
> 1. Command line interface (CLI)
> 2. Graphical user interface (GUI)
> 3. Dialogue-based interface
> 4. Gesture-based interface

Command line interface: this is the first type of interface; users have to type in commands.

Advantages:	**Disadvantages:**
▪ Runs very quickly ▪ Used by technicians	▪ Command needs to be memorized ▪ Not user friendly

Graphical user interface: the most common type of interface in which applications are represented by icons, options are chosen

Advantages:	**Disadvantages:**
▪ Users do not have to learn commands ▪ Easy to use	▪ Large and take up lots of storage ▪ Can be slower than CLI

Dialogue-based interface:

Advantages:	**Disadvantages:**
▪ It allows hands-free control ▪ Useful for disabled people	▪ If there is noise, it's not reliable ▪ Expensive

Gesture-based interface:

Advantage:	Disadvantage:
▪ User does not have to enter commands using keyboard	▪ User have to learn the gestures ▪ User may have to wear motion tracking gloves

Types of computers:

1. Desktop computer (PC) (Personal Computer)
2. Laptop
3. Tablet
4. Phablet
5. Smartphones

Device	Advantage	Disadvantage
Desktop	▪ More powerful ▪ Have larger screen ▪ Cost less	▪ Not portable ▪ Take up space
Laptop	▪ Light weight ▪ Portable	▪ Amount of battery life ▪ Slower to start than tablet
Tablet	▪ Easy to use ▪ Light weight ▪ Lots of apps to choose from	▪ Can be expensive ▪ Amount of battery life
smartphone	▪ Pocket sized ▪ Can make phone calls ▪ Can use Wi-Fi	▪ Small screens can make reading difficult ▪ Web browsing can drain the battery quickly