

PORTABLE DIGITAL DEVICES

- A range of small portable digital devices are now available including:
 - Personal digital assistants (PDAs).
 - Mobile (Cell) phones.
 - Smartphones.
 - Multimedia players.

Personal digital assistants (PDAs)

- These devices use a special pen, rather than a keyboard and can be used for storing and retrieving information. Like most computer devices, can connect to the Internet. They are extremely compact.
- PDAs have many built-in features such as a calculator, a clock and a calendar and Global Positioning System (GPS).



Mobile (Cell) phones

- A mobile phone or cell phone is used for mobile communication. As well as speech they may be used for text messaging, emailing and accessing the Web. also allow you to send and receive pictures and video.
- Most mobile phones use a signal from a local transmission tower and will not work when you are out of range or if the signal is blocked by mountains, or even buildings.



Smartphones

- A smartphone is a mobile phone (cell phone) offering advanced computer features.
 - Capabilities and standards different from one manufacturer to another.
- Most smartphones have some of operating system allowing you to connect to other devices and also to install applications.
- Most smartphones allow you to send and receive emails and allow you to browse the Web.
 - Some have a mini computer-type keyboard built into them, while others have a touch screen.
 - Have GPS positioning systems.
 - Some smartphones allow you to read documents in Microsoft Word or Adobe PDF format.
 - Other features can include a built-in camera, the ability to play music, display photos and video clips, media software for playing music, browsing photos and viewing video clips.



Multimedia players

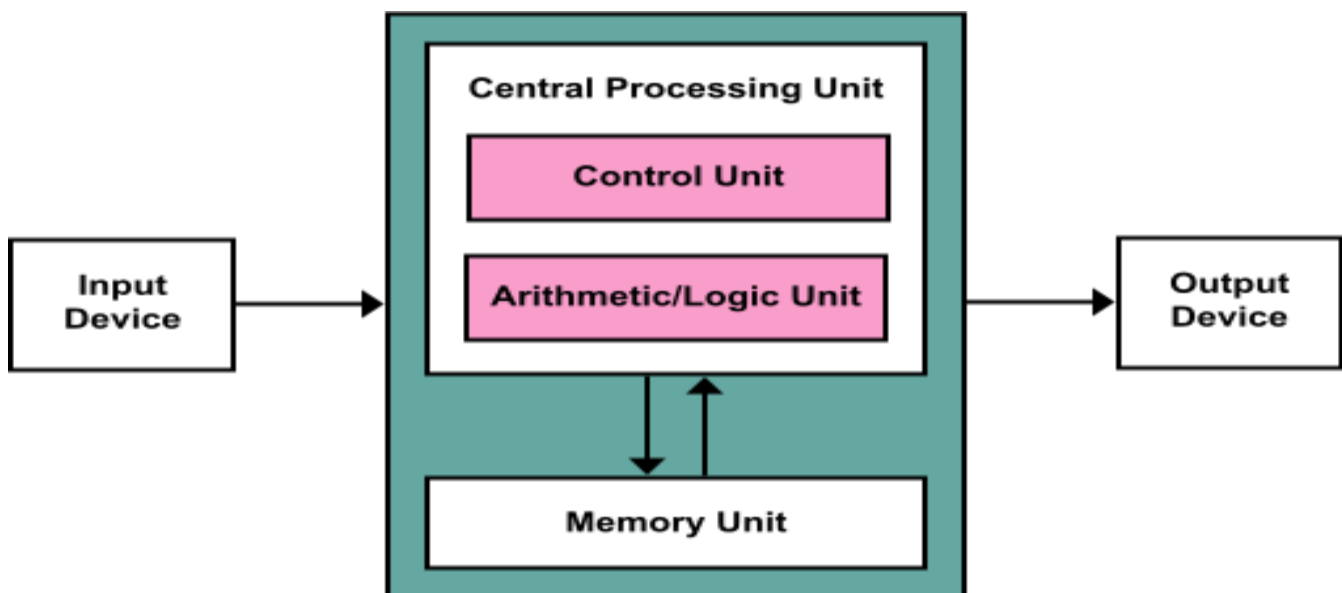
- Media players allow you to store digital music and video. A famous example is the iPod from Apple, which lets you store your digital music which you can then listen to. Thousands of songs can be stored on these devices.
- You can also get devices with a built-in screen which will allow you to watch films and video clips that you download to these devices.



COMPONENTS OF A COMPUTER

The classic components of a computer are described below.

The operation of the processor is best understood in terms of these components.



COMPUTER SYSTEM

A computer system consists of both *hardware* and information stored on hardware. Information stored on computer hardware is often called *software*.

HARDWARE

The term hardware refers to the physical components of your computer such as the system unit, mouse, keyboard, monitor etc.

The major hardware components of a computer system are:

- Processor(CPU)
- Main memory
- Secondary memory
- Input devices
- Output devices

Processor(CPU)

The CPU (Central Processing Unit) it is one of the most important components within computer. which performs all the calculations within the computer.

- It is an electronic device about a one inch square, covered in plastic, Inside the square is an even smaller square of silicon containing millions of very small electrical parts. It's may contain 100 million transistors.
- It does the fundamental computing within the system, and directly or indirectly controls all the other components.
- It is measured by MHz or GHz speed.
- Some computers will have a special type of processor, such as a Pentium chip or a SPARC chip.

