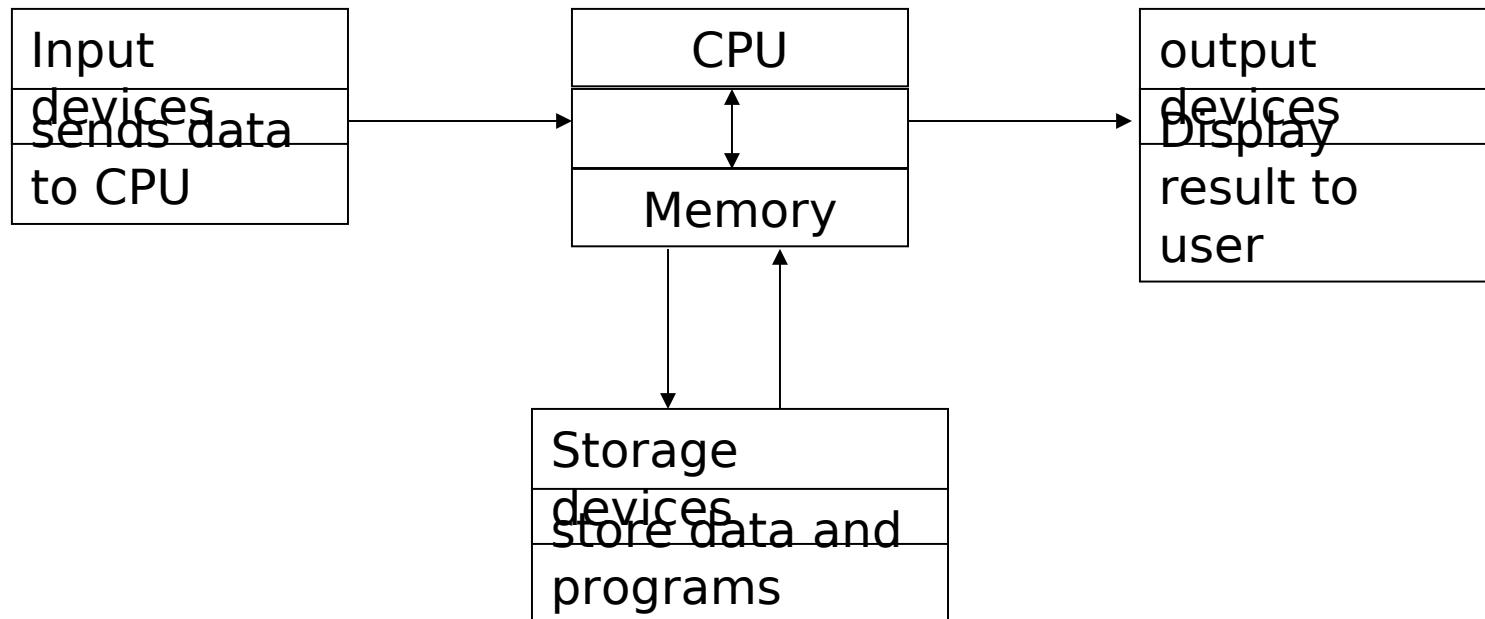


Lecture 2: Components of a computer

- ☐ Input device
- ☐ CPU
- ☐ Output device
- ☐ Storage device

Components of a computer

- Computer components are categorized into four main groups
 - input devices
 - Central processing unit and memory
 - output devices
 - Secondary storage devices



Components of a computer

- Input devices are such as
 - keyboard
 - Mouse
 - Wand reader (a supermarket hand scanner)
 - Bar code reader (a supermarket swap scanner)
- Central processing Unit (CPU)
 - CPU consists of electronic circuits that interpret and execute program instructions
 - CPU through program instruction also communicate with input, output and storage devices
 - CPU manipulate and transform data into useful and meaningful information

Components of a computer

■ Memory

- Memory is closely associated with CPU used to hold input data temporarily before processed by CPU
- Memory also hold data temporarily after being processed by CPU but before release to output or storage device

■ Output device

- Output device used to display resulted information after data being processed by CPU
- Common output devices are
 - **Screen/monitor** (show lines of text, numerical or colored images)
 - **Printer** (produce hard/printed document at the instruction of computer program)

Components of a computer

- Storage device
 - Is used to hold data and programs permanently regardless whether power supply to computer is on/off
 - Most common storage device media are
 - Magnetic disk
 - Magnetic tape
 - Magnetic disk is a flat disk on which data is recorded as magnetic spots e.g. diskette, hard-disk
 - Magnetic tape is a cassette-like cartridge usually mounted on tape drives to write and read data by computer system

Components of a computer

- These devices are usually put into two physical groups
 - Computer system unit
 - Computer peripherals
- Computer system unit is in most cases enclosed in plastic/aluminum case and consists of
 - CPU
 - hard-disk
 - embedded output device drivers
- Computer peripherals includes all input, output and secondary storage devices normally attached to computer case