

CHAPTER 1

COMPUTER SYSTEM



1.1 INTRODUCTION TO COMPUTER SYSTEM

A computer is an electronic device that can be programmed to accept data (input), process it and generate result (output). A computer along with additional hardware and software together is called a computer system.

A computer system primarily comprises a central processing unit (CPU), memory, input/output devices and storage devices. All these components function together as a single unit to deliver the desired output. A computer system comes in various forms and sizes. It can vary from a high-end server to personal desktop, laptop, tablet computer, or a smartphone.

Figure 1.1 shows the block diagram of a computer system. The directed lines represent the flow of data and signal between the components.

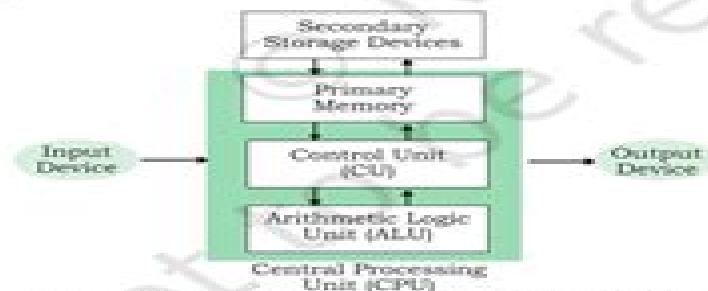


Figure 1.1: Components of a computer system

1.1.1 Central Processing Unit (CPU)

It is the electronic circuitry of a computer that carries out the actual processing and usually referred as the brain of the computer. It is commonly called processor also. Physically, a CPU can be placed on one or more microchips called integrated circuits (IC). The ICs comprise semiconductor materials.

"A computer would deserve to be called intelligent if it could deceive a human into believing that it was human."

—Alan Turing

In this chapter

- Introduction to Computer System
- Evolution of Computer
- Computer Memory
- Data Transfer between Memory and CPU
- Data and Information
- Microprocessors
- Software
- Operating System

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