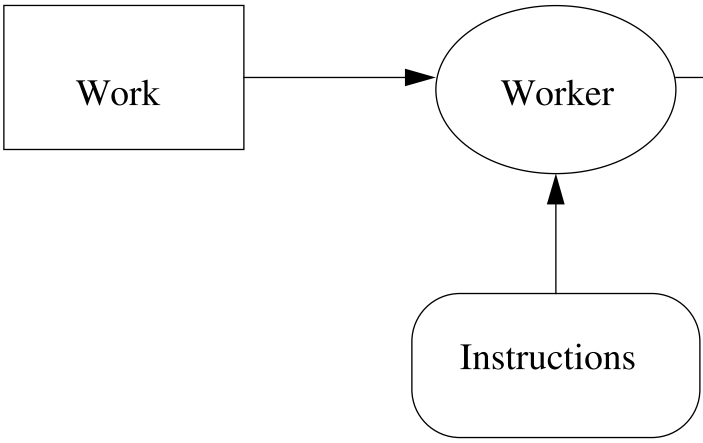
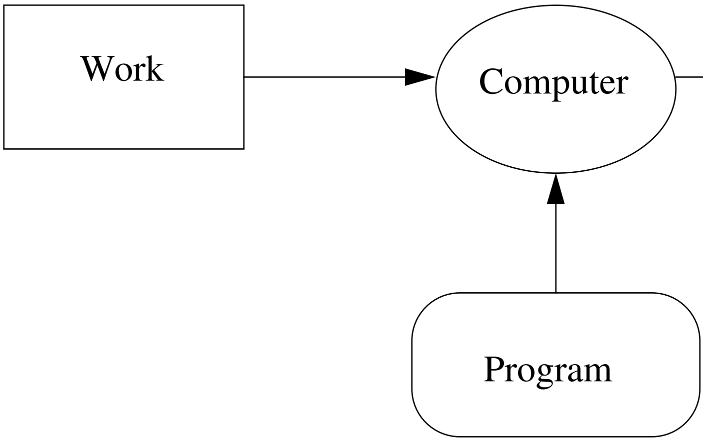
OBJECTIVES

- To learn fundamental programming techniques in problem solving.
- To learn basic program design and software engineering concepts.
- To learn and using the programming language C++.

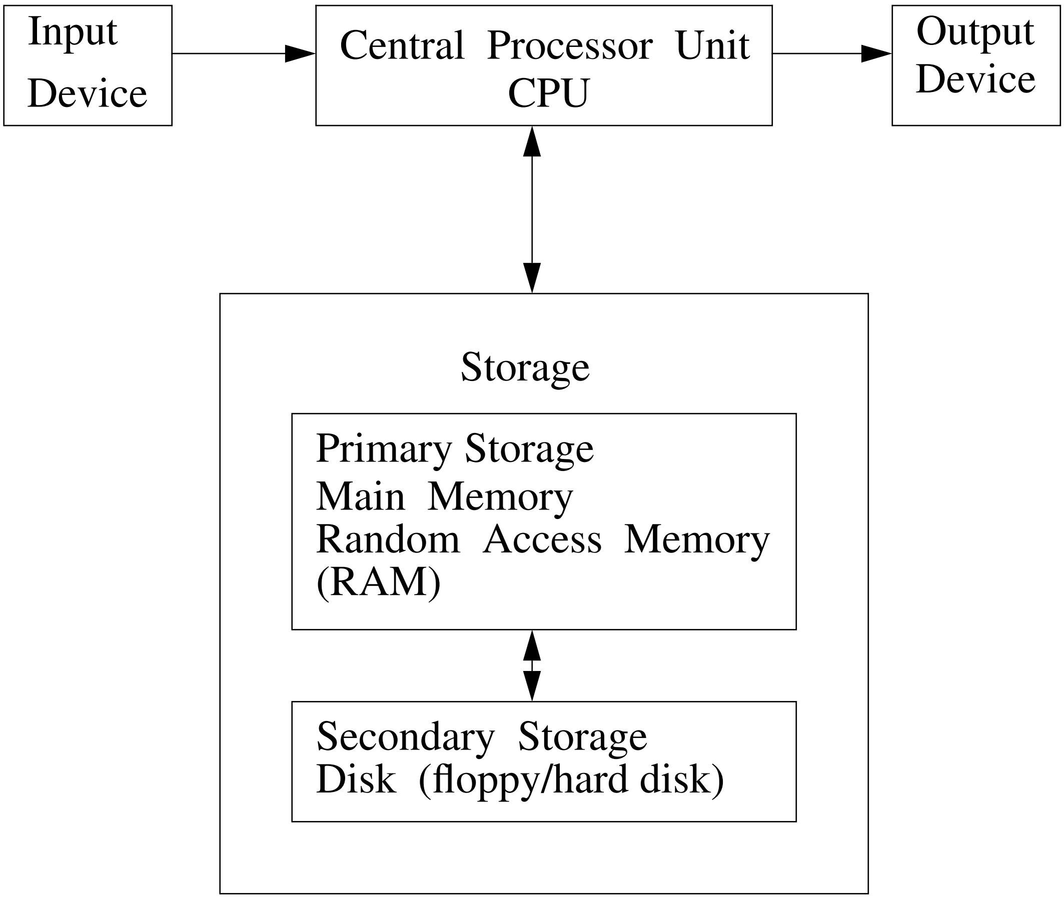
Simplified Work Model



Computer Work Model



Hardware


Input
Device
Central Processor Unit
CPU
Output
Device
Storage
Primary Storage
Main Memory
Random Access Memory
(RAM)
Secondary Storage
Disk (floppy/hard disk)

INPUT DEVICES

Accept input signal from user and transmit the signal to the CPU (translation into format understandable by the CPU is also needed).

E.g., Keyboard, Mouse, Scanner

OUTPUT DEVICES

Accept output signal from CPU and display the signal to the user (translation into format understandable by the user is needed).

E.g., Monitor, Printer

Central Processing Unit (CPU)

Performs the actual processing and manipulation of information.

- Control unit: coordinates all activities of a computer.

- Arithmetic-logic unit: performs arithmetic and logical operations.