The I/O subsystem of a computer provides an efficient mode of communication between the central system and the outside environment. It handles all the input output operations of the computer system.
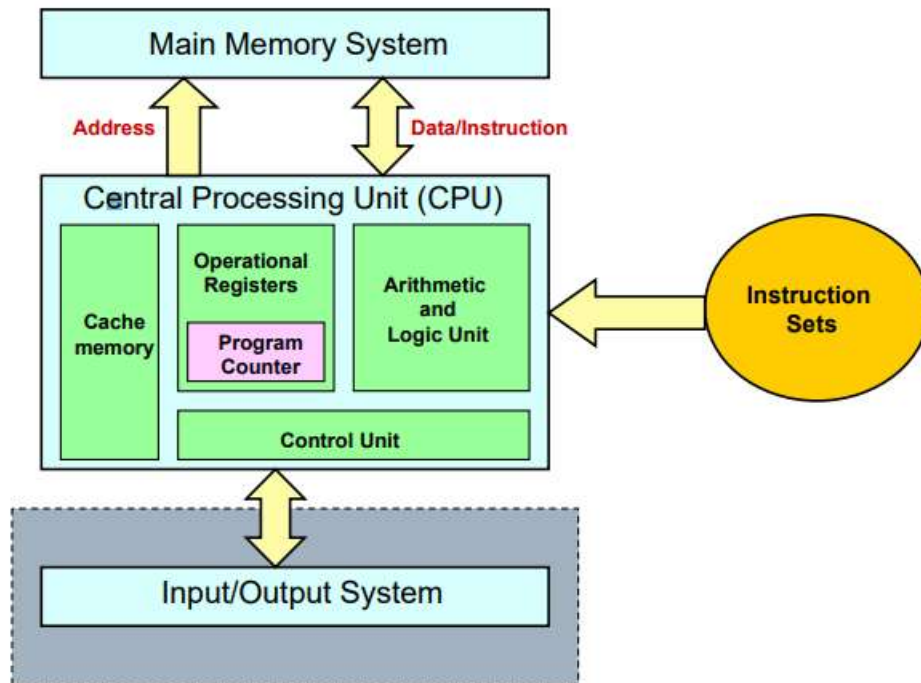
Peripheral Devices:

Input or output devices that are connected to computer are called peripheral devices. These devices are designed to read information into or out of the memory unit upon command from the CPU and are considered to be the part of computer system. These devices are also called peripherals.

For example: Keyboards, display units and printers are common peripheral devices.

There are three types of peripherals:

- **Input peripherals:** Allows user input from the outside world to the computer e.g. Keyboard, Mouse etc.
- **Output peripherals:** Allows information output, from the computer to the outside world. e.g. Printer, Monitor etc.
- **Input-Output peripherals:** Allows both input (from outside world to computer) as well as, output (from computer to the outside world0 e.g. touch screen etc.

Mechanical and optical mice

left click
scroll wheel
right click

PS/2 connector

USB connector

mechanical mouse
(bottom view)

cordless optical mouse
(bottom view)

cable

light beam
(reflects from
surface)

camera

right click switch

left click
switch

encoder

forward/
backward
roller

scroll
wheel

circuit
board

prism

LED

ball
(rolls on
surface)

side-to-
side roller

rechargeable battery

charging heads

signal antenna

outer casing

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Laser printer

laser

laser beam

1. Residual toner removed from drum by scraping or
   by passing under a discharging and erasing lamp.

2. Uniform high-voltage negative
   charge applied to drum.

negative
charger

photoreceptor drum

lenses

path of
laser beam

7. Toner particles
   are fused or
   melted onto
   the paper.

rotating
hexagonal mirror

3. Laser beam selectively
   discharges the image areas onto
   the rotating drum, reversing the
   strong negative charge to a
   weak positive charge.

ABCDEFG
HIJKLMN

fuser
roller

printed side
of paper

toner hopper

toner
roller

paper tray

blank paper

negatively charged toner particles

6. Negatively charged
   toner particles on the
   drum are transferred
   to the paper.

4. Negatively charged toner
   particles adhere to only the areas
   given a positive charge by the laser.

positive
charger

5. Paper receives a
   strong positive charge.

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