

Subject: Computer Studies

Class: SS1

TOPIC: OUTPUT DEVICES

SUB-TOPIC: PRINTERS

Definition



Printers are **output devices** that produce **hard copy** documents or files.

They are classified into **Impact** and **Non-Impact** types.



Types of Printers

1. Impact Printers

Use physical contact to print on paper.

Examples of Impact Printers:

a. Dot Matrix Printer:



- Uses a print head with pins to strike an ink ribbon.
- Produces characters and graphics by impact.

b. Character or Daisy wheel Printer:

- Prints one character at a time.
- Slower compared to other types.

c. Line Printer:

- Prints an entire line at a time.

2. Non-Impact Printers

Do not use mechanical contact; rely on other methods such as ink or toner.

Examples of Non-Impact Printers:

1. Inkjet Printer:



- Sprays ink directly onto the paper.
- Produces high-quality images and graphics.
- Common for home and office use.

2. Laser Printer:



- Uses laser technology and toner powder to print.
- Fast and efficient, suitable for large volumes.

3. Thermal Printer:



- Uses special heat-sensitive paper.
- Common in receipt printing.

Comparative Study of Printers

Features	Dot-Matrix Printer	Inkjet Printers	Laser-Jet Printers
Technology	Impact	Non-Impact	Non-Impact
Print Quality	Low	High	Very High
Speed	Slow	Moderate	Fast
Cost	Low	Moderate	High
Noise Level	High	Low	Low