# Day-2
Let's learn comments & Variables

Today's Topic:

Comments & Variables

What are comments and why they are important

What are variables and Rules to create variable

Print Function

print() is a built-in Python function that sends data to the standard output (console).

🖥️	Used to display output on screen
✔️	Helps you check what code is doing
🖥️	Most commonly used function in Python
🖨️	Print is like telling the computer: **"Show this message to me."**

Comments in Python

Comments are notes written for humans, not computers.

Comments help us explain code

Python ignores comments

Starts with #

Does not affect output

Examples:

```python
# This is a comment
print("Hello")
```

Why Comments Are Crucial

Helps you remember what your code does

Useful when working in companies (teamwork)

Makes code readable

Interviewers check code clarity

Variables in Python

A variable is a reserved memory location that stores a value.
Python variables are dynamically typed (no need to define data type).
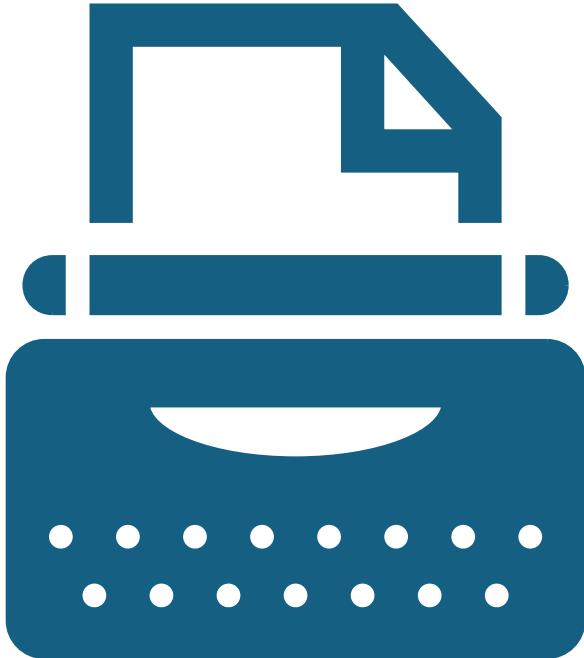
A variable stores data

It works like a container/box

You can put information inside it

You can change its value anytime

A variable is like a **container**, **tiffin box**, or **folder** where you store data temporarily.

Practical Exercise

- name = "Rahul Sharma"

- age = 28

- sales = 45000

- print(name)

- print("Age:", age)

- print("Today's Sales:", sales)

Variables: Examples

name = "Satish"	Text → stored inside quotes
age = 25	Numbers → no quotes
salary = 55000	Numbers → no quotes
is_active = True	True/False → boolean values

Rules for Naming Variables

Must start with a letter or underscore

Cannot start with a number

No spaces

Case-sensitive

Cannot use Python keywords

Good Examples:

- customer_name
- total_sales
- product1

Bad Examples:

- 1name
- total sales
- class (keyword)

Why Variables Are Important for Data Analysts

1 Store customer information

2 Store totals, averages

3 Count missing values

4 Store columns during cleaning

5 Rename columns dynamically

6 Filter conditions

Real-life example:

total_sales = 450000
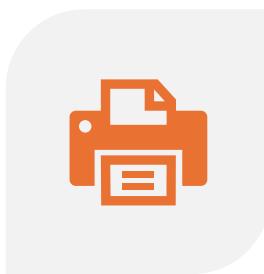
average_rating = 4.6
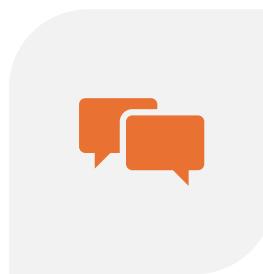
customer_city = "Mumbai"
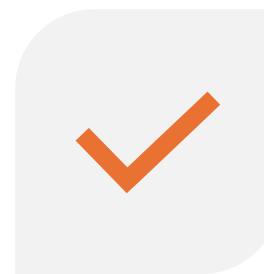
Mini Assignment

✓ 5 PRINT STATEMENTS

✓ 3 COMMENTS

✓ 5 VARIABLES

✓ EXAMPLE COMBINING ALL THREE