📘 **Chapter 3 : Comments in Python**

**🔹 What Are Comments?**

* A **comment** is a line in your code that **Python ignores during execution**.
* Used to **explain code**, **describe logic**, and **make your code readable** and **maintainable**.

**🔹 Why Use Comments?**

* To **document your code** for yourself and others.
* Helps you **understand your code later**.
* Makes your code **professional and team-friendly**.

**🔹 How to Write a Comment**

* Start a comment with a # symbol.

# This is a single-line comment

print("Hello World")

**🔹 Multi-Line Comments**

* Add # at the beginning of each line.

# This is a multi-line comment

# explaining step-by-step logic

# for better clarity

**🔹 Inline Comments**

* You can also place comments **at the end of a line** of code.

x = 10 # final exam score

* Python will only **ignore the part after #**, not the whole line.

**🔹 Best Practices for Comments**

* Use **top-of-line comments** for complex logic or multi-step processes.
* Use **inline comments** for quick, short explanations.
* **Don’t overuse comments** — code should be self-explanatory when possible.
* Keep comments **clear and concise**.

**🔹 Example Use Cases**

# Step 1: Store user input

user\_name = input("Enter your name: ")

# Step 2: Print a welcome message

print("Welcome", user\_name)

score = 95 # User's final score