**✅ Comments in Python**

**Definition:**  
Comments in Python are lines in the code that are **ignored by the Python interpreter**. They are meant for the programmer to explain the code, making it easier to understand, maintain, or debug. Comments do not affect the execution of the program.

**🧠 Why Use Comments?**

* To explain **why** something is done (not just what is done).
* To make code more **readable** for others (or for yourself in the future).
* To **temporarily disable** code during testing/debugging.

**📝 Types of Comments in Python**

1. **🔹 Single-line Comments**
   * Use the **# (hash)** symbol.
   * Everything after # on the same line is ignored.

**Example:**

# This is a single-line comment

name = "Alice" # This is an inline comment explaining the variable

1. **🔹 Multi-line Comments (using Triple Quotes)**
   * Use ''' ... ''' or """ ... """ (triple single or double quotes).
   * Commonly used as **docstrings** or to comment out blocks of code.
   * Technically, these are **multi-line strings** but can act like comments if not assigned to a variable.

**Example:**

'''

This is a multi-line comment.

It can span multiple lines.

Useful for detailed explanations.

'''

print("Hello World")