

# 🐍 Python Comments - Lecture

### What is a Comment in Python?

A comment in Python is a note or message written in your code that the computer ignores. It's only for you (the programmer) or for others reading your code.

Think of comments like sticky notes you leave in a notebook — they help you remember what your code is doing.

#### Why Do We Use Comments?

- To explain what your code does
- To make your code easier to read
- To help you remember what you did
- To help others understand your code

### **Types of Comments in Python**

#### 1 Single-Line Comments

These are short comments written on one line.

Starts with a # symbol.

#### **P** Example:

# This is a single-line comment print("Hello!") # This prints Hello!

#### 2 Multi-Line Comments

Sometimes, you need to write longer comments over many lines.

#### 📌 Example:

...

This is a multi-line comment.
It can be written on several lines.
The computer will ignore it.
""

print("Welcome to Python!")

# 🧒 Real-Life Example

Let's say you wrote a program that adds two numbers. A comment can explain it like this:

# This program adds two numbers
a = 5
b = 3
sum = a + b
print(sum) # This will print 8

Isn't that easier to understand?

### Fun Fact!

Python ignores comments when running your code. So, even if you write a story in comments, Python will skip it!

# Once upon a time, in the land of Python...
# There lived a happy variable named 'x'!
x = 10
print(x)

# **What Happens Without Comments?**

Imagine a math notebook with **no headings or explanations** — only numbers. Hard to understand, right? That's how code looks without comments.



#### Task 1:

Write a Python program to print your name and add comments to explain each line.

# This program prints my name print("My name is Azhar")

#### Task 2:

Write a program that adds 10 and 20, and write comments for each line.

# This program adds two numbers a = 10 # First number b = 20 # Second number sum = a + b # Add the numbers print(sum) # Print the result

# Challenge for Smart Students!

Write a small program with **both single-line and multi-line comments** to explain what your program does.

### Mark Tips

- Always write comments to explain what your code is doing.
- Don't write obvious things like:

 $a = 5 \# Assign 5 to a \times (too obvious)$ 

Instead, write:



# 📚 Summary

Thing	What	it (	does
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Starts a single-line comment #

' ' ' or Starts a multi-line comment

0.000

Comment Help explain your code to humans

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Python Ignores comments when running

code

# Ending Note

#### Good coders write good comments!

It makes your code look clean, smart, and easy to understand.

So always remember:

"Write code for computers, write comments for humans!"