

Topic: Single-line and Multi-line Comment Statements in Python

What is a Comment in Python?

A **comment** is a line in your code that **Python ignores** during execution.

It's used to:

- Explain your code
- Leave notes
- Temporarily disable lines of code

 Think of it as "code for humans, not for Python"

1. Single-line Comment

Syntax:

```
# This is a single-line comment
```

Practical Example:

```
x = 5 # Storing a number
# print(x) ~ This line won't run
```

What to show:

- How it works above/beside a line
- It doesn't affect output

2. Multi-line Comment (Using Triple Quotes)

Python doesn't have **true multi-line comment syntax** like C (`/* ... */`) But we **simulate it** using triple quotes:

❖ Syntax:

```
"""
```

```
This is a  
multi-line comment  
in Python.
```

```
"""
```

Or:

```
'''
```

```
This is also  
a valid multi-line comment.
```

```
'''
```

☑ Practical Example:

```
"""
```

```
This program adds two numbers  
and prints the result.
```

```
Written by Gowtham
```

```
"""
```

```
a = 5  
b = 3  
print(a + b)
```

💡 Note: Triple quotes are normally used for **docstrings**, but work as multi-line comments if not assigned to anything.

 **Wrap-Up Summary (Quick Recap)**

Type	Syntax	Use Case
Single-line	# comment	Short notes or inline comments
Multi-line	''' ... ''' or """ ... """	Longer explanations or block comments

About the Author

Gowtham SB is a **Data Engineering expert, educator, and content creator** with a passion for **big data technologies, as well as cloud and Gen AI**. With years of experience in the field, he has worked extensively with **cloud platforms, distributed systems, and data pipelines**, helping professionals and aspiring engineers master the art of data engineering.

Beyond his technical expertise, Gowtham is a **renowned mentor and speaker**, sharing his insights through engaging content on **YouTube and LinkedIn**. He has built one of the **largest Tamil Data Engineering communities**, guiding thousands of learners to excel in their careers.

Through his deep industry knowledge and hands-on approach, Gowtham continues to **bridge the gap between learning and real-world implementation**, empowering individuals to build **scalable, high-performance data solutions**.

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