



Internship Report

Project Title: Stock Portfolio Tracker using Python

Internship Duration: [1st June & 30th June]

Internship Organization/Guide: [CodeAlpha]

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Course: BCA (Bachelor of Computer Applications)

◆ 1. Project Objective

The main objective of this project was to build a **command-line Python application** to track stock investments by taking stock names and quantities from the user and calculating the total investment.

◆ 2. Technologies Used

- **Programming Language:** Python
 - **Libraries Used:** os, re, (optional: requests, if extended to fetch real prices)
 - **Tools:** Command Prompt, Text Editor (VS Code/Notepad)
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◆ 3. Key Features

- Takes **user input** for stock names and quantity.
 - Calculates and displays **Total Investment**.
 - Simple and interactive **command-line interface**.
 - Can be extended to include **live stock prices** using APIs.
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◆ 4. Workflow

1. Opened Command Prompt
2. Navigated to the folder containing stock_tracker.py
3. Ran the script using:

bash

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python stock_tracker.py

4. Entered multiple stock names and their quantities
 5. Viewed the portfolio summary with total investment
-

◆ 5. Sample Output

bash

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Enter stock name (or type 'done' to finish): AAPL

Enter quantity of AAPL shares: 5

Enter stock name (or type 'done' to finish): TSLA

Enter quantity of TSLA shares: 2

Enter stock name (or type 'done' to finish): done

Your Portfolio Summary:

Total Investment: ₹1250

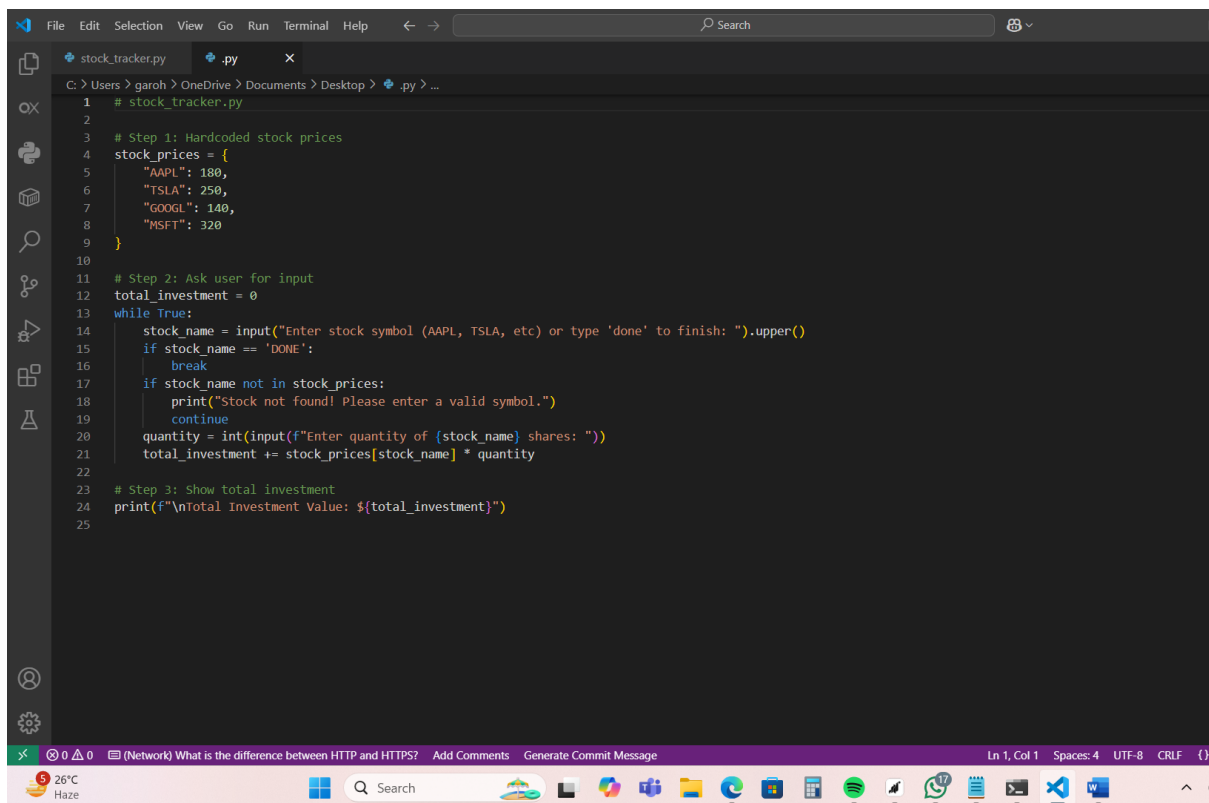
◆ 6. Skills Gained

- Basic **Python scripting**
 - Use of **file paths** and **command-line operations**
 - Input/output handling
 - Logical thinking and debugging
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◆ 7. Conclusion

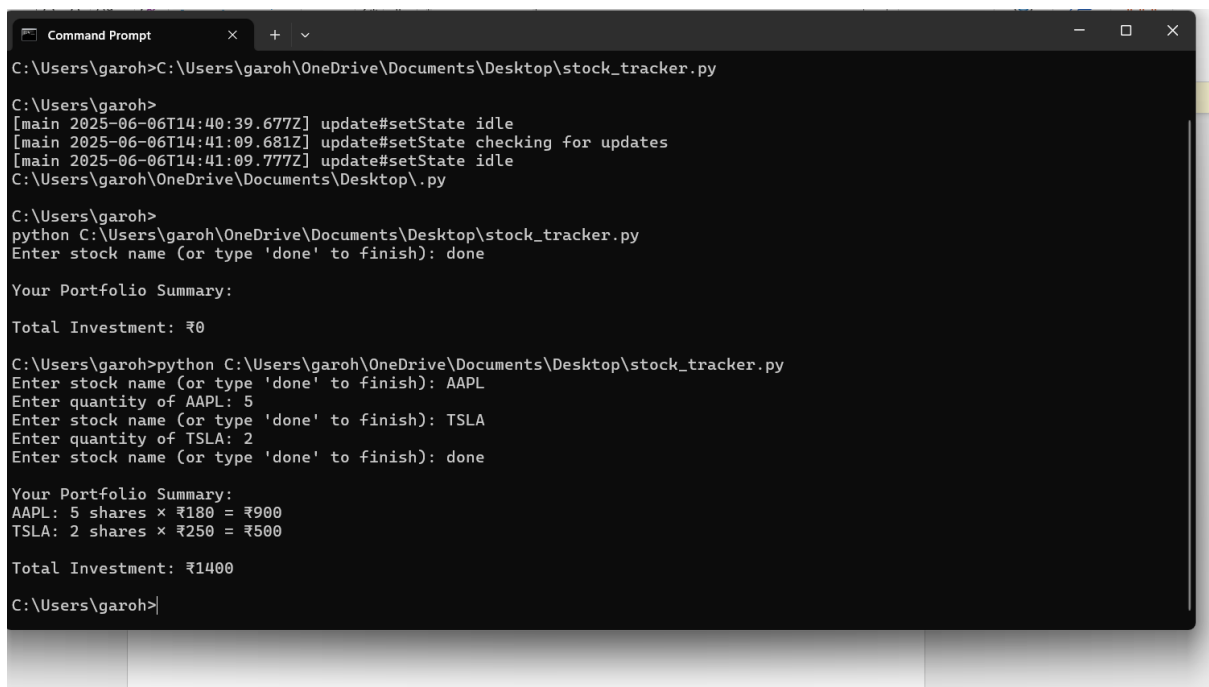
This project helped me understand how to create a basic command-line tool using Python. I learned to interact with the user, perform calculations, and execute scripts via the terminal. It was a great first step into automation and real-world application development.

Here's the code..!



```
1 # stock_tracker.py
2
3 # Step 1: Hardcoded stock prices
4 stock_prices = {
5     "AAPL": 180,
6     "TSLA": 250,
7     "GOOGL": 140,
8     "MSFT": 320
9 }
10
11 # Step 2: Ask user for input
12 total_investment = 0
13 while True:
14     stock_name = input("Enter stock symbol (AAPL, TSLA, etc) or type 'done' to finish: ").upper()
15     if stock_name == 'DONE':
16         break
17     if stock_name not in stock_prices:
18         print("Stock not found! Please enter a valid symbol.")
19         continue
20     quantity = int(input(f"Enter quantity of {stock_name} shares: "))
21     total_investment += stock_prices[stock_name] * quantity
22
23 # Step 3: Show total investment
24 print(f"\nTotal Investment Value: ${total_investment}")
25
```

And here's the output



```
C:\Users\garoh>C:\Users\garoh\OneDrive\Documents\Desktop\stock_tracker.py
C:\Users\garoh>
[main 2025-06-06T14:40:39.677Z] update#setState idle
[main 2025-06-06T14:41:09.681Z] update#setState checking for updates
[main 2025-06-06T14:41:09.777Z] update#setState idle
C:\Users\garoh\OneDrive\Documents\Desktop>.py

C:\Users\garoh>
python C:\Users\garoh\OneDrive\Documents\Desktop\stock_tracker.py
Enter stock name (or type 'done' to finish): done

Your Portfolio Summary:

Total Investment: ₹0

C:\Users\garoh>python C:\Users\garoh\OneDrive\Documents\Desktop\stock_tracker.py
Enter stock name (or type 'done' to finish): AAPL
Enter quantity of AAPL: 5
Enter stock name (or type 'done' to finish): TSLA
Enter quantity of TSLA: 2
Enter stock name (or type 'done' to finish): done

Your Portfolio Summary:
AAPL: 5 shares x ₹180 = ₹900
TSLA: 2 shares x ₹250 = ₹500

Total Investment: ₹1400

C:\Users\garoh>
```