

Instructions: To execute this project please run stock_console.py in terminal such as Python stock_console.py. Ensure that stock symbols are correct. Database -> Make sure to save to database so you can load it in new session. For graphing make sure to have matplotlib installed in python.

In order to import data through csv please use path without quotation marks ""

Menu :

```
Stock Analyzer
1 Manage Stocks
2 Add Daily Data
3 Show Report
4 Show Chart
5 Manage Data (Save / Load / Retrieve / Import)
0 Exit
Choice: |
```

Manage Stock Menu :

```
Manage Stocks
1 Add
2 Buy / Sell
3 Delete
4 List
0 Back
Choice:
```

Adding stock:

```
Ticker symbol: AAPL  
Company name: Apple Inc  
Initial shares: 10
```

List of Stocks

Symbol	Name	Shares
AAPL	Apple Inc	10.00
GOOG	Alphabet Inc	10.00

Press Enter to return

Buying stock :

```
Symbol      Name      Shares
-----
AAPL        Apple Inc    10.00
GOOG        Alphabet Inc 10.00

Which ticker? AAPL
Buy (b) or Sell (s)? b
# shares: 23
Updated! Enter
```

Selling stock:

```
Windows PowerShell
Symbol      Name      Shares
-----
AAPL        Apple Inc    33.00
GOOG        Alphabet Inc 10.00

Which ticker? GOOG
Buy (b) or Sell (s)? s
# shares: 2
Updated! Enter
```

Deleting stock :

Symbol	Name	Shares
AAPL	Apple Inc	33.00
GOOG	Alphabet Inc	8.00

```
Delete which ticker? GOOG
Deleted (if it existed). Enter
```

New Stock List after deletion and updating:

Symbol	Name	Shares
AAPL	Apple Inc	33.00

Press Enter to return

Adding Daily Data:

Symbol	Name	Shares
AAPL	Apple Inc	33.00

Enter ticker to add data for: AAPL

Date (m/d/yy): 12/9/25

Close price: 277.18

Volume: 31711233

Record added. Enter

Report based on last manual added data :

Portfolio Report							
Symbol	Name	Shares	Last Price	Volume	Value (\$)	P/L (\$)	P/L (%)
AAPL	Apple Inc	33.00	\$ 277.18	31,711,233	\$ 9,146.94	\$ +0.00	+0.00%

Enter

Adding Data through the web:

```
Manage Data
1 Save to DB
2 Load from DB
3 Retrieve from Web
4 Import CSV
0 Back
Choice: 3
Start date (m/d/yy): 12/1/25
End   date (m/d/yy): 12/9/25
6 records added. Enter|
```

Chrome Driver testing:

Apple Inc. (AAPL) Stock Histori

finance.yahoo.com/quote/AAPL/history/?period1=1764576000&period2=1765267200&interval=1d&fil...

Chrome is being controlled by automated test software.

yahoo/finance

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Apple Inc. (AAPL)

Follow

Analyze with AI

277.18

-0.71 (-0.26%)

At close: December 9 at 4:00:02 PM EST

277.14

-0.04 (-0.01%)

Overnight: 8:17:50 PM EST

Time to act on AAPL?

Dec 01, 2025 - Dec 09, 2025

Historical Prices

Daily

Currency in USD

Download

Date	Open	High	Low	Close	Adj Close	Volume
Dec 8, 2025	278.13	279.67	276.15	277.89	277.89	38,211,800
Dec 5, 2025	280.54	281.14	278.05	278.78	278.78	47,265,800
Dec 4, 2025	284.10	284.73	278.59	280.70	280.70	43,989,100
Dec 3, 2025	286.20	288.62	283.30	284.15	284.15	43,538,700
Dec 2, 2025	283.00	287.40	282.63	286.19	286.19	53,669,500
Dec 1, 2025	278.01	283.42	276.14	283.10	283.10	46,587,700

Quote Lookup

U.S. markets closed

US

Europe

Asia

Cryptoc

S&P Futures

6,844.25

-4.00 (-0.06%)

Dow Futures

47,592.00

-21.00 (-0.04%)

Nasdaq Fut...

25,653.75

-46.00 (-0.18%)

Russell 200...

2,526.90

-2.50 (-0.10%)

VIX

16.93

+0.27 (+1.62%)

Gold

4,240.70

+4.50 (+0.11%)

Report statistics based on importing through web:

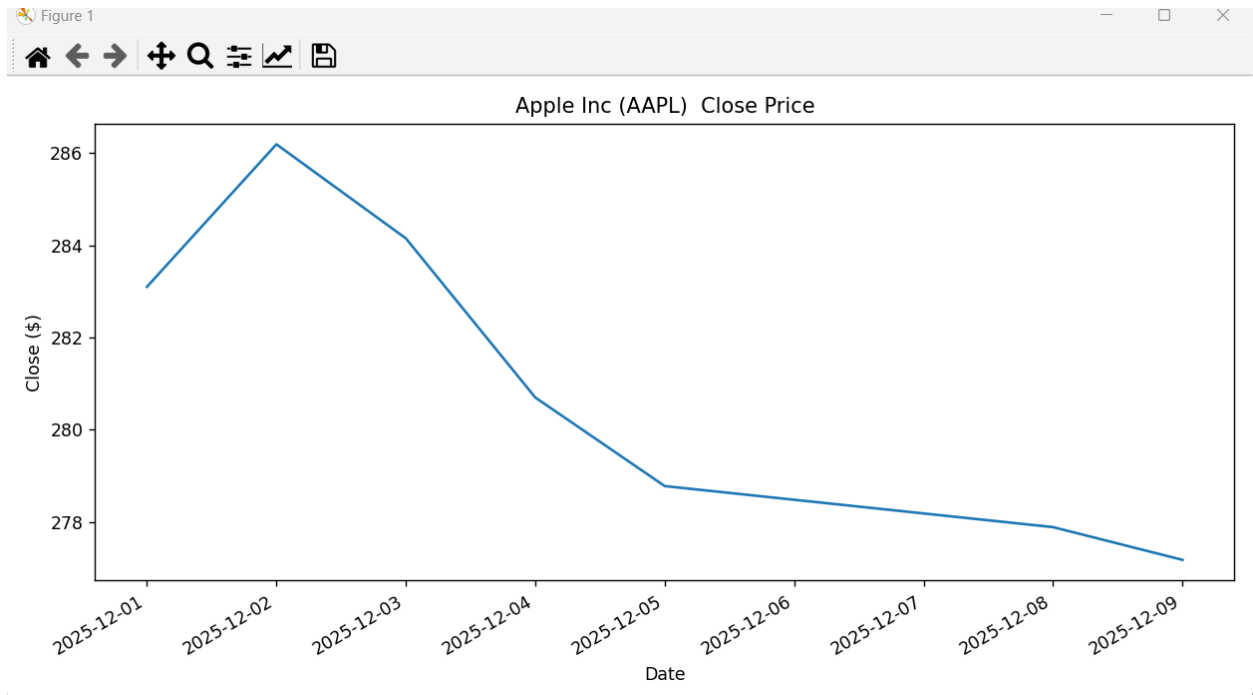
```
Portfolio Report
Symbol Name          Shares  Last Price  Volume  Value ($)  P/L ($)  P/L (%)
=====
AAPL  Apple Inc       33.00  $   277.18  31,711,233  $  9,146.94  $   -195.36  -2.09%
Enter
```

Chart report menu (Additional amazon stock added):

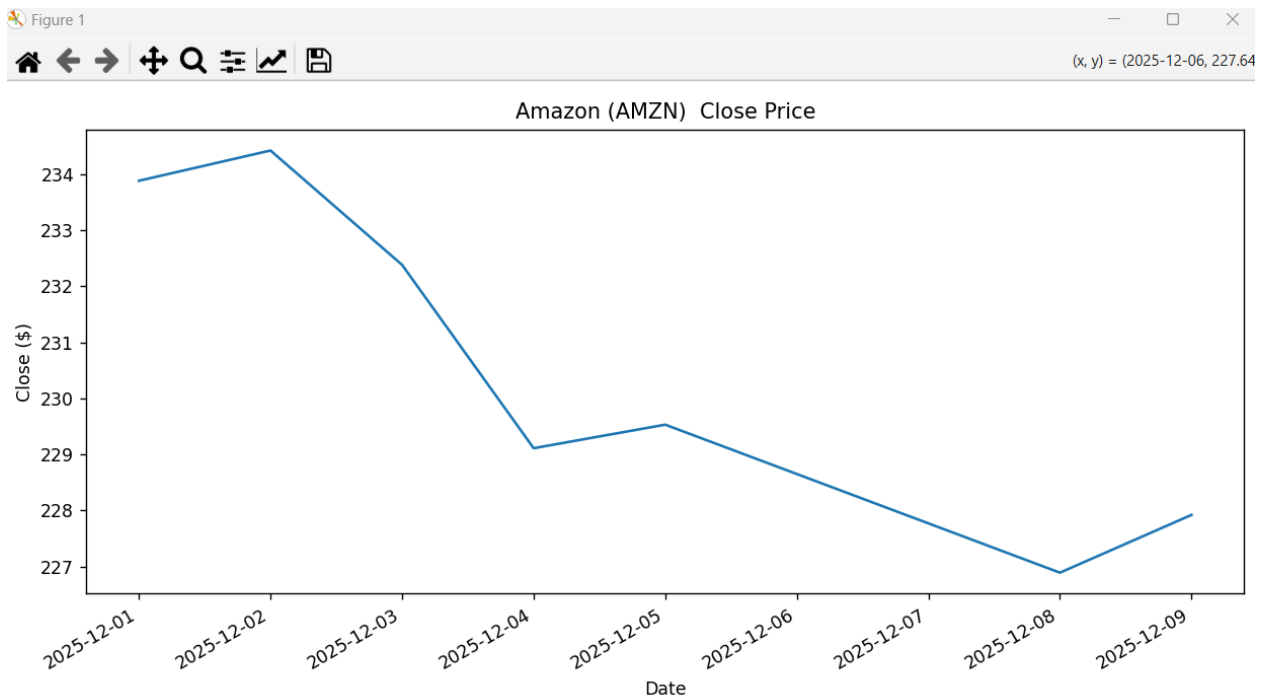
```
Windows PowerShell
Symbol Name          Shares
-----
AAPL  Apple Inc       33.00
AMZN  Amazon            20.00
Show chart for which ticker? AAPL
```


Charts :

Apple Inc 12/1/25 – 12/9/25



Amazon 12/1/25 – 12/9/25:



Importing Apple stock csv :

```
Manage Data
1 Save to DB
2 Load from DB
3 Retrieve from Web
4 Import CSV
0 Back
Choice: 4
Ticker symbol: AAPL
Full path to CSV: C:\Users\Nikhil Kulkarni\Downloads\lab2\lab2\APPLE.csv
Import done. Enter
```

Saving to database:

```
Manage Data
1 Save to DB
2 Load from DB
3 Retrieve from Web
4 Import CSV
0 Back
Choice: 1
Saved. Enter
```

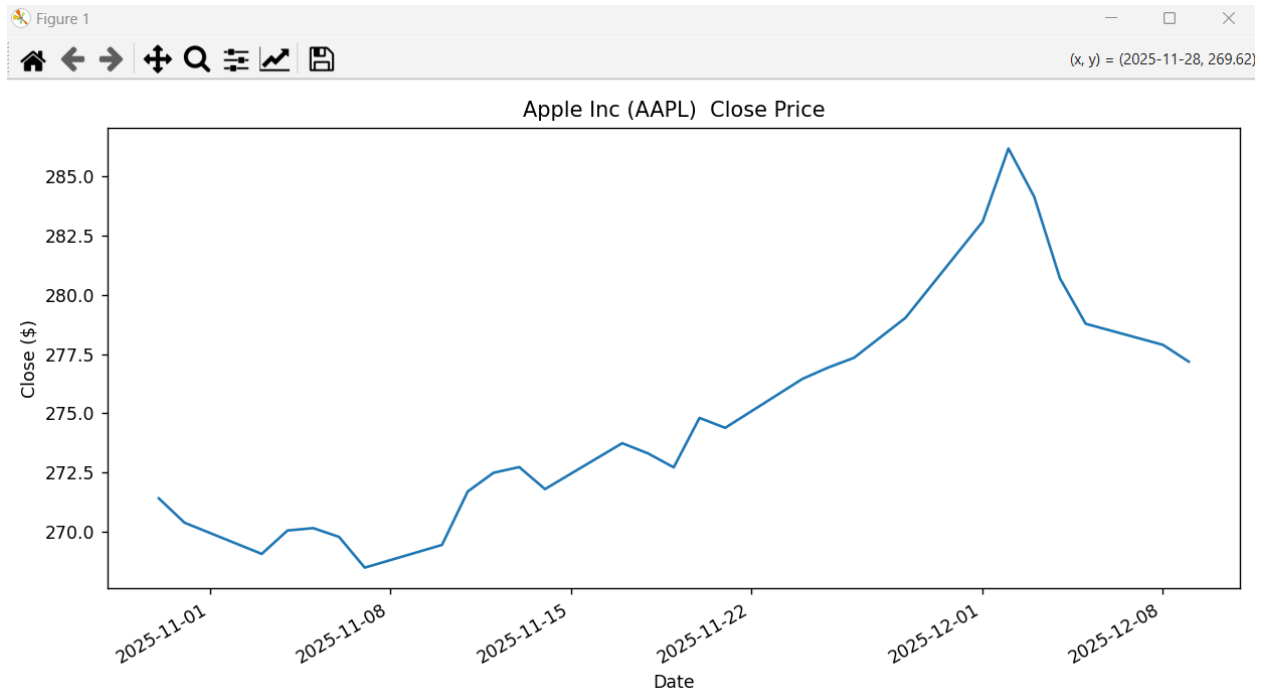
New session loading from DB:

```
Manage Data
1 Save to DB
2 Load from DB
3 Retrieve from Web
4 Import CSV
0 Back
Choice: 2
Loaded. Enter
```

Final stock report with Apple Inc csv and web import for AMZN:

```
Portfolio Report
Symbol Name          Shares  Last Price  Volume  Value ($)  P/L ($)  P/L (%)
=====
AAPL  Apple Inc       33.00  $   277.18  31,711,233  $   9,146.94  $   +190.74  +2.13%
AMZN  Amazon           20.00  $   227.92  23,206,041  $   4,558.40  $   -119.20  -2.55%
Enter
```

Apple stock chart csv:



Exiting the program:

```
Stock Analyzer
1 Manage Stocks
2 Add Daily Data
3 Show Report
4 Show Chart
5 Manage Data (Save / Load / Retrieve / Import)
0 Exit
Choice: 0
```