

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:

```
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 History

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

Chrome is being controlled by automated test software.

yahoo.finance

Search for news, tickers or companies

Historical Data

NasdaqGS - Nasdaq Real Time Price • USD

**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

U.S. markets closed

US	Europe	Asia	Cryptocu...
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		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

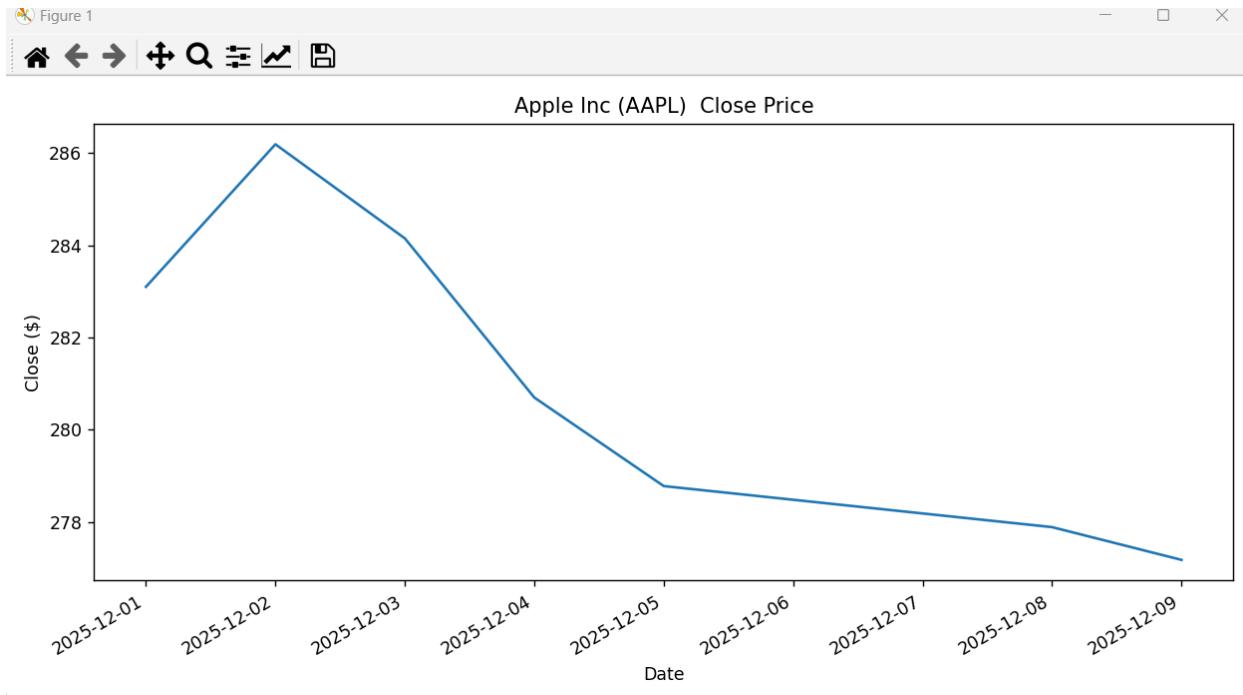
Chart report menu (Additional amazon stock added ):

```
Windows PowerShell
Symbol      Name          Shares
-----      --
AAPL        Apple Inc      33.00
AMZN        Amazon         20.00

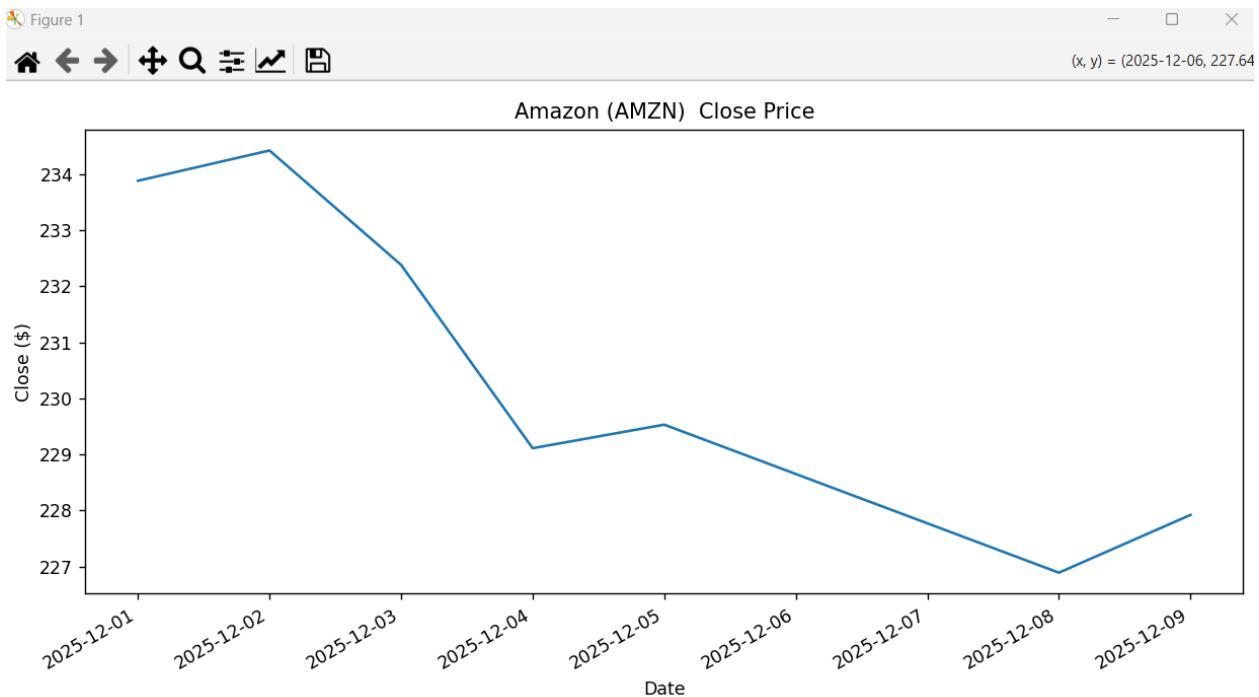
Show chart for which ticker? AAPL
```

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
9 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
9 Back
Choice: 1
Saved. Enter
```

New session loading from DB:

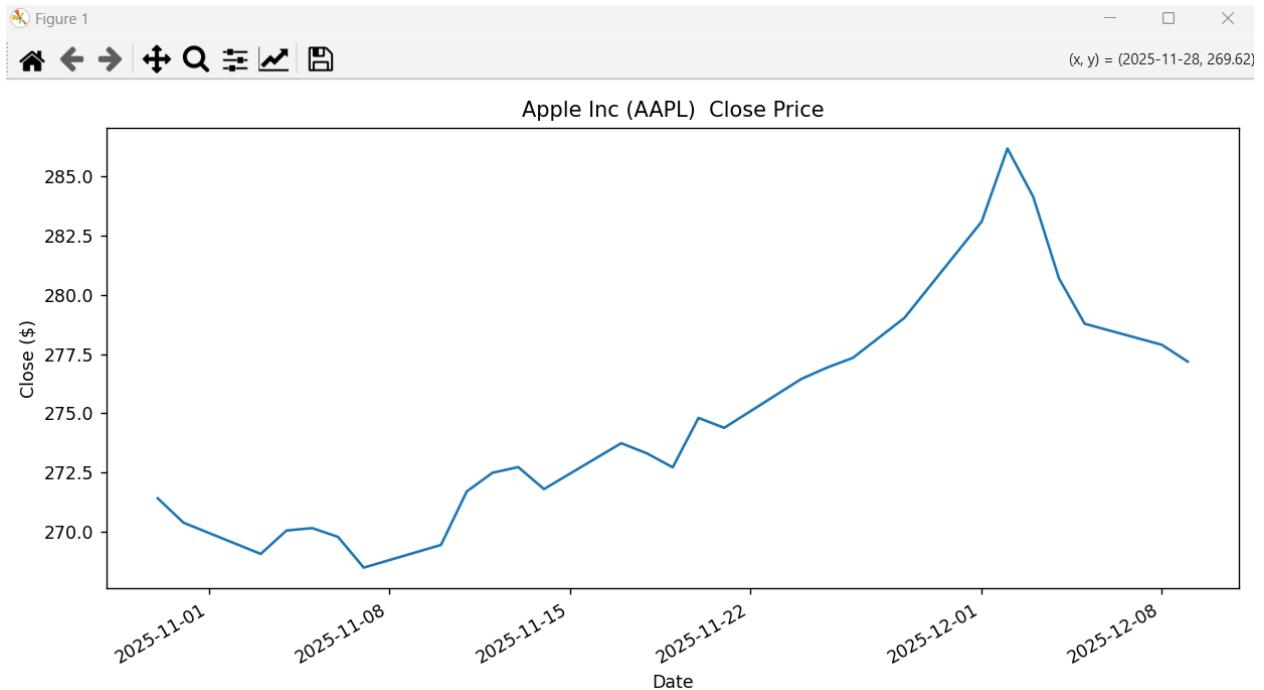
```
Manage Data
1 Save to DB
2 Load from DB
3 Retrieve from Web
4 Import CSV
0 Back
Choice: 2
Loaded. Enter
```

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

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
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3 Show Report
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0 Exit
Choice: 0
```