# Stock Portfolio Management Program

This Python program allows users to manage a stock portfolio by adding, removing, and viewing stocks int

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## **Features**

#### 1. Add Stocks

- Add a specific number of shares of a stock to your portfolio with an optional price.
- Automatically updates the shares if the stock already exists in the portfolio.

#### 2. Remove Stocks

- Remove a specific number of shares of a stock from your portfolio.
- Automatically removes the stock if all its shares are sold.
- Prevents removal if the number of shares to remove exceeds the available shares.

## 3. View Portfolio

- Displays all the stocks in your portfolio in a tabular format.
- Shows details like ticker symbol, number of shares, price per share, and the total value.
- Calculates and displays the total portfolio value.

### 4. Interactive Menu

- A simple menu-driven interface allows users to:
  - Add stock.
  - Remove stock.

- View portfolio.
- Exit the program.
How to Use
Clone or download the repository containing the StockPortfolio.py file.
2. Run the program:
python StockPortfolio.py
3. Follow the on-screen menu to manage your portfolio:
- Select options (1-4) for different actions.
- Input stock tickers, shares, and prices as prompted.
Example Usage
Adding a Stock:
Options:
1. Add Stock
2. Remove Stock
3. View Portfolio
4. Exit
Select an option (1-4): 1

Enter number of shares: 10
Enter stock price: 150
Added 10 shares of AAPL to your portfolio.
Viewing Portfolio:
Options:
1. Add Stock
2. Remove Stock
3. View Portfolio
4. Exit
Select an option (1-4): 3
Portfolio Summary:
Ticker Shares Price Value
AAPL 10 \$150.00 \$1500.00
AAPL 10 \$150.00 \$1500.00
AAPL 10 \$150.00 \$1500.00  Total Portfolio Value: \$1500.00
Total Portfolio Value: \$1500.00
Total Portfolio Value: \$1500.00  Removing a Stock:
Total Portfolio Value: \$1500.00  Removing a Stock:  Options:
Total Portfolio Value: \$1500.00  Removing a Stock:  Options:  1. Add Stock
Total Portfolio Value: \$1500.00  Removing a Stock:  Options:  1. Add Stock  2. Remove Stock

Enter stock ticker (e.g., AAPL): AAPL
Enter number of shares to remove: 5
Removed 5 shares of AAPL.
Requirements
- Python 3.x
Code Structure
- StockPortfolio Class: Contains methods to manage the portfolio:
- add_stock: Adds shares of a stock to the portfolio.
- remove_stock: Removes shares of a stock from the portfolio.
- display_portfolio: Displays a summary of the portfolio.
- run: Handles the interactive menu loop.
- Interactive Menu: Allows the user to interact with the program using options.
<del></del>
Future Enhancements
- Add support for fetching real-time stock prices.