

# Stock portfolio tracker

## PROGRAM:

```
stock_prices = {
    "AAPL": 180,
    "TSLA": 250,
    "GOOGL": 2800,
    "MSFT": 350,
    "AMZN": 130
}

portfolio = {}
while True:
    stock = input("Enter stock symbol (or type 'done' to finish): ").upper()
    if stock == "DONE":
        break
    if stock not in stock_prices:
        print("Stock not found in price list. Try again.")
        continue
    try:
        qty = int(input(f"Enter quantity of {stock}: "))
        portfolio[stock] = portfolio.get(stock, 0) + qty
    except ValueError:
        print("Invalid quantity. Please enter a number.")
total_value = 0
print("\nYour Portfolio Summary:")
for stock, qty in portfolio.items():
    price = stock_prices[stock]
    value = price * qty
    total_value += value
    print(f"{stock} - Quantity: {qty}, Price: {price}, Value: ${value}")
print(f"\nTotal Investment Value: ${total_value}")
save_option = input("\nDo you want to save the result to a file? (yes/no): ").lower()
if save_option == "yes":
    filename = input("Enter filename (with .txt or .csv): ")
    with open(filename, "w") as file:
        file.write("Stock,Quantity,Price,Value\n")
        for stock, qty in portfolio.items():
            price = stock_prices[stock]
            value = price * qty
            file.write(f"{stock},{qty},{price},{value}\n")
        file.write(f"\nTotal Investment Value: ${total_value}")
    print(f"Portfolio saved to {filename}")
```

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## OUTPUT:

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

Enter quantity of TSLA: 5

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

Your Portfolio Summary:

TSLA - Quantity: 5, Price: 250, Value: \$1250

Total Investment Value: \$1250

Do you want to save the result to a file? (yes/no):

## EXPLANATION:

1. Enter Stocks: You enter a stock symbol (like "AAPL" for Apple) and the quantity you own.
2. Portfolio Summary: The code calculates the total value of your portfolio based on the current stock prices.
3. Save to File: You can save your portfolio summary to a file.