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# Stock Portfolio Tracker

# Hardcoded dictionary of stock prices
stock_prices = {
    "AAPL": 180,
    "TSLA": 250,
    "GOOG": 2800,
    "MSFT": 310,
    "AMZN": 135
}

# Function to calculate investment
def calculate_portfolio():
    portfolio = {}
    total_value = 0

    print("Available Stocks:", list(stock_prices.keys()))

    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 available. Try again.")
            continue

        try:
            quantity = int(input(f"Enter quantity of {stock}: "))
        except ValueError:
            print("Invalid input. Enter a number.")
            continue

        portfolio[stock] = portfolio.get(stock, 0) + quantity
        total_value += stock_prices[stock] * quantity

    print("\n--- Portfolio Summary ---")
    for s, q in portfolio.items():
        print(f"{s}: {q} shares @ {stock_prices[s]} = {q * stock_prices[s]}")
    print(f"\nTotal Investment Value: ${total_value}")

    # Optional: Save to file
    save = input("Do you want to save the result? (y/n): ").lower()
    if save == "y":
        filename = "portfolio.txt"
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        with open(filename, "w") as f:
            f.write("--- Portfolio Summary ---\n")
            for s, q in portfolio.items():
                f.write(f"{s}: {q} shares @ {stock_prices[s]} = {q * stock_prices[s]}\n")
            f.write(f"\nTotal Investment Value: ${total_value}")
        print(f"Portfolio saved to {filename}")

# Run program
calculate_portfolio()
```