7/2/24, 8:57 PM tracker.py

E:\tracker.py

```
import pandas as pd
    import yfinance as yf
   import matplotlib.pyplot as plt
    import seaborn as sns
4
 5
 6
    def fetch_stock_data(symbol, start date, end date):
 7
8
        Fetches historical stock data from Yahoo Finance.
9
10
        :param symbol: The stock symbol to fetch data for.
11
        :param start date: The start date of the data in 'YYYY-MM-DD' format.
12
        :param end date: The end date of the data in 'YYYY-MM-DD' format.
13
        :return: A pandas DataFrame containing the stock data.
14
15
        stock data = yf.download(symbol, start=start date, end=end date)
16
        return stock data
17
   def calculate_portfolio_metrics(df):
18
19
        Calculates relevant metrics like daily returns and portfolio balance.
20
        :param df: DataFrame containing stock data.
21
22
        :return: Updated DataFrame with new metrics.
23
24
        df['Daily Return'] = df['Adj Close'].pct change()
25
        # Additional metrics can be added here
26
        return df
27
    def plot_stock_trends(df, title):
28
29
        Plots stock price trends.
30
31
        :param df: DataFrame containing stock data.
        :param title: Title of the plot.
32
33
        plt.figure(figsize=(10, 6))
34
35
        sns.lineplot(data=df['Adj Close'])
36
        plt.title(title)
37
        plt.xlabel('Date')
        plt.ylabel('Adjusted Close Price')
38
39
        plt.show()
```