Aim: To execute pandas program to create a scatter plat of the trading volume 1 stock prices of Alphabet inc. stock between two specitic data

pseudocode:

- + import necessary libraries: pandas and matphotlib. pyplot as comess the data column to datatime dorman pd, pit
- 1 load stock datas alob shutam who the state of the Read the Csv tile into a Datatrame with data passing
- # Filter data between specific dates set start-date = '2020-04-01', end-date = '2020-04-03'
- & create scatter plot . set tigsize (10,6) set plot title, label axis
- + Display + he plot

1,0

0.5

sample input:

Alphabet inc database (stock price and trading volume) sample output : Trading volume - closing price 3.5 2.5

Result: therefore the pomdas program execution bor Scatter plot executed successfully

2020-01 2020-02 2020-03 2020-04 2020-07

```
# Convert 'Date' to datetime format
alphabet_stock_data['Date'] = pd.to_datetime(alphabet_stock_data['Date'], dayfirst=True)
# Filter data between specific dates
start_date - '2020-04-01'
end_date = '2020-05-01'
filtered_data = alphabet_stock_data[(alphabet_stock_data['Date'] >= start_date) & (alphabet_stock_data['Date'] <= end_date)]</pre>
# Create a scatter plot of trading volume vs stock price (Close)
plt.figure(figsize=(10, 6))
plt.scatter(filtered_data['Volume'], filtered_data['Close'], alpha=0.5)
plt.title('Aiphabet Inc. Stock: Trading Volume vs Stock Price (April 2020)')
plt.vlabel('Trading Volume')
plt.ylabel('Stock Price (Close)')
plt.ylabel('Stock Price (Close)')
plt.ylabel('Stock Price (Close)')
                                                                                                                                                                                                                                                         Figure 1
plt.show()
```

Load the CSV file containing stock data alphabet_stock_data = pd.read_csv("C:/Users/abhip/OneDrive/Documents/DSA05 LAB/alphabet.csv")

import pandas as pd
import matplotlib.pyplot as plt

File

Edit View



