Experiment - 6 AIM: To execute pandas program to create a scatte, plot of the trading stock prices of Alphabet inc Pseudo cade: 1) Import necessary Ebranies: pandas & matplottib Pyplot as poliplt. 2) head Stack North. Read the csv file into a Data frame with date paroing. 3) create scatter plot: set fignine (0,4) set plot title lubel axis. 4) Diepray the plot. Sample input: Alphabet inc. database Sample output: 2.0 - 10 10 10 10 2020-01 2020-02 2020-03 2020-04 Result: Therefore pandows program execution for scatter plot successfully.

Ex

to

```
# 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



