Aim: To execute pandas program to create bar graph of trending volume of stock between two specific data

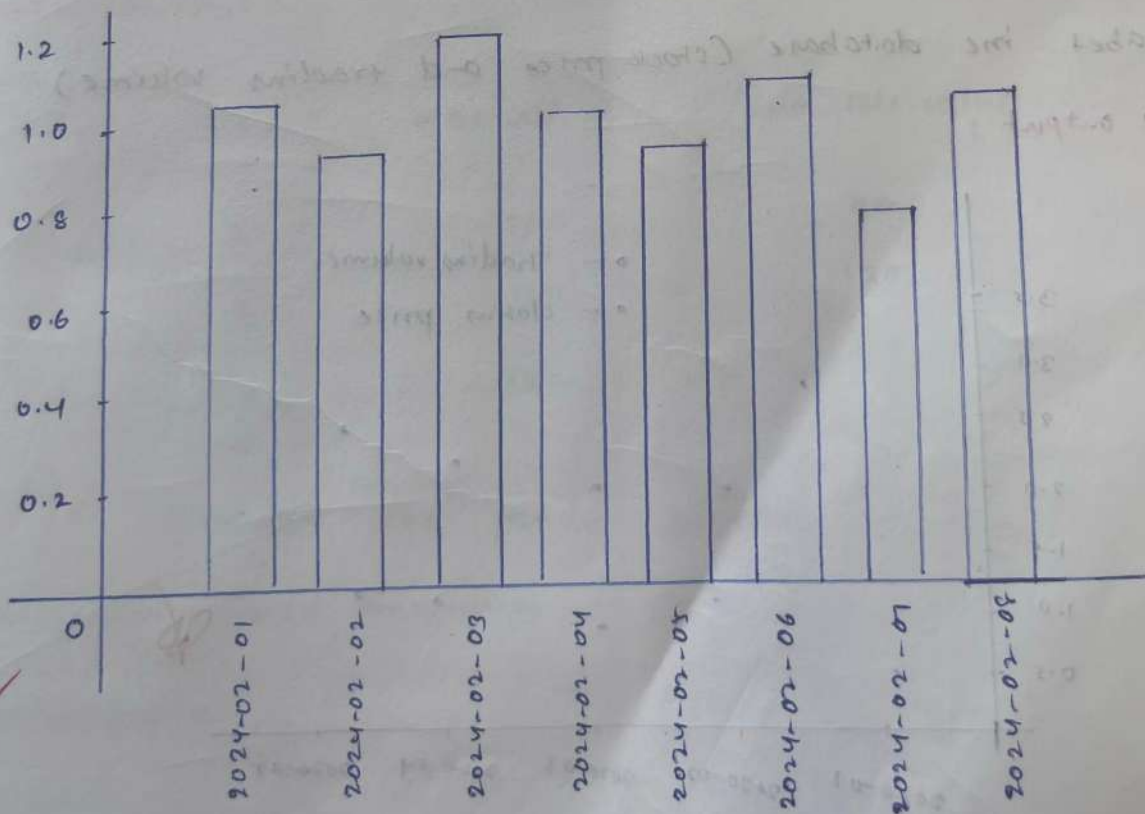**pseudocode:**

∗ import the required libraries : pandas & matplotlib

∗ convert the data column to datetime format

∗ Filter dataframe to only include data between the specified start

∗ plot a bar chart trading volumes even display plot

sample input:

Alphabet inc. (stock) database.

sample output:

Result: Therefore the pandas program for trading volume has been executed successfully

```python
import pandas as pd
import matplotlib.pyplot as plt

# Load stock data
data = pd.read_csv("C:/Users/abhip/OneDrive/Documents/DSA05 LAB/read.csv", parse_dates=['Date'], index_col='Date')

# Define the date range
start_date = '2020-01-01'
end_date = '2020-01-31'

# Filter data for the specific date range
filtered_data = data[start_date:end_date]

# Plotting the trading volume as a bar chart
plt.figure(figsize=(10, 6))
filtered_data['Volume'].plot(kind='bar', title='Trading Volume of Alphabet Inc. (Jan 2020)', ylabel='Volume', xlabel='Date')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```

```
Date,Open,High,Low,Close,Volume
2020-01-02,1345.56,1354.89,1334.53,1346.87,1043500
2020-01-03,1343.49,1346.23,1321.23,1334.52,1342500
2020-01-06,1331.19,1354.29,1329.04,1344.37,1534700
2020-01-07,1352.02,1365.43,1348.12,1352.89,1445200
2020-01-08,1355.12,1371.01,1348.56,1362.20,1623000
2020-01-09,1368.20,1375.23,1358.42,1374.50,1203400
2020-01-10,1372.78,1383.24,1362.40,1373.32,1802500
2020-01-13,1385.33,1390.99,1372.50,1389.85,1423700
2020-01-14,1388.67,1395.44,1376.00,1384.34,1532800
2020-01-15,1375.50,1384.50,1365.78,1372.43,1283400
2020-01-16,1375.25,1386.75,1372.34,1384.73,1405200
2020-01-17,1382.34,1394.56,1378.10,1390.20,1635200
2020-01-21,1393.12,1400.23,1385.76,1395.34,1763400
2020-01-22,1397.20,1412.00,1391.45,1403.87,1674300
2020-01-23,1405.23,1418.20,1400.56,1414.63,1522700
2020-01-24,1415.12,1425.67,1412.00,1419.83,1932800
2020-01-27,1400.00,1412.50,1380.54,1405.02,2105300
2020-01-28,1408.35,1422.40,1400.23,1419.20,1604900
2020-01-29,1425.00,1435.20,1418.50,1434.34,1536700
```

Trading Volume of Alphabet Inc. (Jan 2020)