EXPERIMENT -5 ALM: To execute poundous perogram to evente bux plot of t of trændling volume of stock between two yeafte data. 00 Renda Coole: 1) Import the orequired librarion: pandar & mulplottib 2) Convert the data column to datetime format 3) Felton dataframe to only include data between specified start. ta 4) Plot a ban chart trading volumes ever explay plot. Sample Input: Alphatet inc. (Stock) database ex. Sample Output: ENt beef 2024.02-22 JOH -07-01 2424-02-15 Result: Therefore the pundas paragram for trading volume caecuted Euccon fully.

```
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()
                                                                                                Figure 1
plt.show()
                                                                                                                         Trading Volume of Alphabet Inc. (Jan 2020)
                                                                                                      1e6
                                                                                                 2.00
                                                                                   ₿
              View
  File
        Edit
                                                                                                 1.75
  Date, Open, High, Low, Close, Volume
                                                                                                 1.50
  2020-01-02,1345.56,1354.89,1334.53,1346.87,1043500
                                                                                                 1.25
  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
                                                                                                 1.00
  2020-01-08,1355.12,1371.01,1348.56,1362.20,1623000
                                                                                                 0.75
  2020-01-09,1368.20,1375.23,1358.42,1374.50,1203400
  2020-01-10,1372.78,1383.24,1362.40,1373.32,1802500
                                                                                                 0.50
  2020-01-13,1385.33,1390.99,1372.50,1389.85,1423700
  2020-01-14,1388.67,1395.44,1376.00,1384.34,1532800
                                                                                                 0.25
  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
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  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
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