

Result:

the code is executed successfully and got the output.

5. write a pandas program to create a bar plot of the trading volume of Alphabet Inc. stock between two specified dates.

Aim:

To create a bar plot of Alphabet Inc's trading volume over a specified data range to visualize trading activity.

Pseudo Code:

- import necessary libraries . pandas and matplotlib
- load the historical stock data for Alphabet Inc.
- filter the data for the specified data range



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Thank you

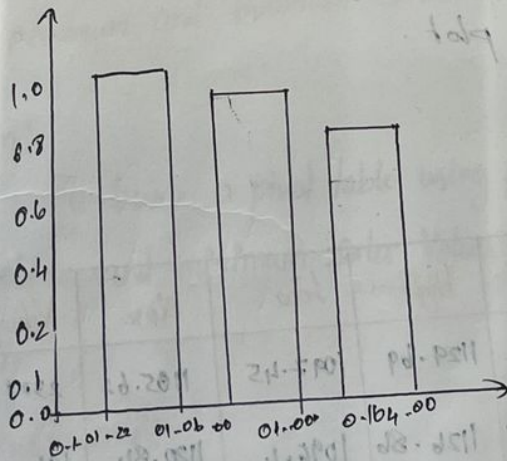
11

⇒ plot the loading volume using a bar chart with dates on the x-axis and Volume on the y-axis  
→ Display the bar plot.

Sample output:

Date	Volume
2023-01-01	1000000
2023-01-02	1050000
2023-01-03	1020000
2023-01-04	980000
2023-01-05	1100000

Sample output:



Result:

The code is executed successfully and got output

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```
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()
```

```
File Edit View
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
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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
2020-01-30,1435.00,1445.00,1430.00,1440.00,1536700
2020-01-31,1435.00,1445.00,1430.00,1440.00,1536700
Ln 23, Col 1 1,103 characters 90% Windows (CRLF) UTF-8
```

