

6. Write a Pandas program to create a scatter plot of the trading volume/stock prices of Alphabet Inc. stock between two specific dates.  
**alphabet\_stock\_data:**

Date	Open	High	Low	Close	Adj Close	Volume
01-04-2020	1122	1129.69	1097.45	1105.62	1105.62	2343100
02-04-2020	1098.26	1126.86	1096.4	1120.84	1120.84	1964900
03-04-2020	1119.015	1123.54	1079.81	1097.88	1097.88	2313400
06-04-2020	1138	1194.66	1130.94	1186.92	1186.92	2664700
07-04-2020	1221	1225	1182.23	1186.51	1186.51	2387300
08-04-2020	1206.5	1219.07	1188.16	1210.28	1210.28	1975100
09-04-2020	1224.08	1225.57	1196.735	1211.45	1211.45	2175400
13-04-2020	1209.18	1220.51	1187.598	1217.56	1217.56	1739800
14-04-2020	1245.09	1282.07	1236.93	1269.23	1269.23	2470400
15-04-2020	1245.61	1280.46	1240.4	1262.47	1262.47	1671700
16-04-2020	1274.1	1279	1242.62	1263.47	1263.47	2518100
17-04-2020	1284.85	1294.43	1271.23	1283.25	1283.25	1949000
20-04-2020	1271	1281.6	1261.37	1266.61	1266.61	1695500
21-04-2020	1247	1254.27	1209.71	1216.34	1216.34	2153000
22-04-2020	1245.54	1285.613	1242	1263.21	1263.21	2093100
23-04-2020	1271.55	1293.31	1265.67	1276.31	1276.31	1566200
24-04-2020	1261.17	1280.4	1249.45	1279.31	1279.31	1640400
27-04-2020	1296	1296.15	1269	1275.88	1275.88	1600600
28-04-2020	1287.93	1288.05	1232.2	1233.67	1233.67	2951300
29-04-2020	1341.46	1359.99	1325.34	1341.48	1341.48	3793600
30-04-2020	1324.88	1352.82	1322.49	1348.66	1348.66	2665400
01-05-2020	1328.5	1352.07	1311	1320.61	1320.61	2072500

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6.py - C:/Users/keert/AppData/Local/Programs/Python/Python311/query processing new/6.py (3.11.4)
File Edit Format Run Options Window Help
import pandas as pd
import matplotlib.pyplot as plt
import yfinance as yf

ticker = 'GOOGL'
start_date = '2023-01-01'
end_date = '2023-12-31'

stock_data = yf.download(ticker, start=start_date, end=end_date)

print(stock_data.head())

plt.figure(figsize=(12, 6))
plt.scatter(stock_data['Volume'], stock_data['Close'], color='blue', alpha=0.5)
plt.title('Trading Volume vs. Closing Prices of Alphabet Inc. Stock')
plt.xlabel('Trading Volume')
plt.ylabel('Closing Price (USD)')
plt.grid(True)
plt.show()

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Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/keert/AppData/Local/Programs/Python/Python311/query processing new/6.py
[*****100%*****] 1 of 1 completed
Date      Open      High      Low      Close  Adj Close  Volume
2023-01-03  89.589996  91.050003  88.519997  89.120003  89.017838  28131200
2023-01-04  90.349998  90.650002  87.269997  88.080002  87.979027  34854800
2023-01-05  87.470001  87.570000  85.900002  86.199997  86.101181  27194400
2023-01-06  86.790001  87.690002  84.860001  87.339996  87.239868  41381500
2023-01-09  88.360001  90.050003  87.860001  88.019997  87.919090  29003900
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