Write a Pandas program to create a scatter plot of the trading volume/stock prices of Alphabet Inc. stock between two specific dates.

PROGRAM:

import matplotlib.pyplot as plt import pandas as pd

```
data = [

{'Date': '01-04-2020', 'Volume': 2343100, 'Close': 1105.62},

{'Date': '02-04-2020', 'Volume': 1964900, 'Close': 1120.84},

{'Date': '03-04-2020', 'Volume': 2313400, 'Close': 1097.88},
```

{'Date': '07-04-2020', 'Volume': 2387300, 'Close': 1186.51},

{'Date': '06-04-2020', 'Volume': 2664700, 'Close': 1186.92},

{'Date': '08-04-2020', 'Volume': 1975100, 'Close': 1210.28},

{'Date': '09-04-2020', 'Volume': 2175400, 'Close': 1211.45},

{'Date': '13-04-2020', 'Volume': 1739800, 'Close': 1217.56},

{'Date': '14-04-2020', 'Volume': 2470400, 'Close': 1269.23},

{'Date': '15-04-2020', 'Volume': 1671700, 'Close': 1262.47},

{'Date': '16-04-2020', 'Volume': 2518100, 'Close': 1263.47},

{'Date': '17-04-2020', 'Volume': 1949000, 'Close': 1283.25},

{'Date': '20-04-2020', 'Volume': 1695500, 'Close': 1266.61},

{'Date': '21-04-2020', 'Volume': 2153000, 'Close': 1216.34},

{'Date': '22-04-2020', 'Volume': 2093100, 'Close': 1263.21},

{'Date': '23-04-2020', 'Volume': 1566200, 'Close': 1276.31},

{'Date': '24-04-2020', 'Volume': 1640400, 'Close': 1279.31},

{'Date': '27-04-2020', 'Volume': 1600600, 'Close': 1275.88},

{'Date': '28-04-2020', 'Volume': 2951300, 'Close': 1233.67},

{'Date': '29-04-2020', 'Volume': 3793600, 'Close': 1341.48},

{'Date': '30-04-2020', 'Volume': 2665400, 'Close': 1320.61},

{'Date': '01-05-2020', 'Volume': 2072500, 'Close': 1320.61}

```
]
```

```
df = pd.DataFrame(data)
df['Date'] = pd.to_datetime(df['Date'], format='%d-%m-%Y')

# Specify the start and end dates for the line plot
start_date = '2020-04-01'
end_date = '2020-04-20'

filtered_data = df[(df['Date'] >= start_date) & (df['Date'] <= end_date)]

plt.plot(filtered_data['Date'], filtered_data['Close'], marker='o')
plt.xlabel('Date')
plt.ylabel('Close Price')
plt.title(f'Historical Stock Prices of Alphabet Inc. ({start_date} to {end_date}))')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
OUTPUT:
```

