

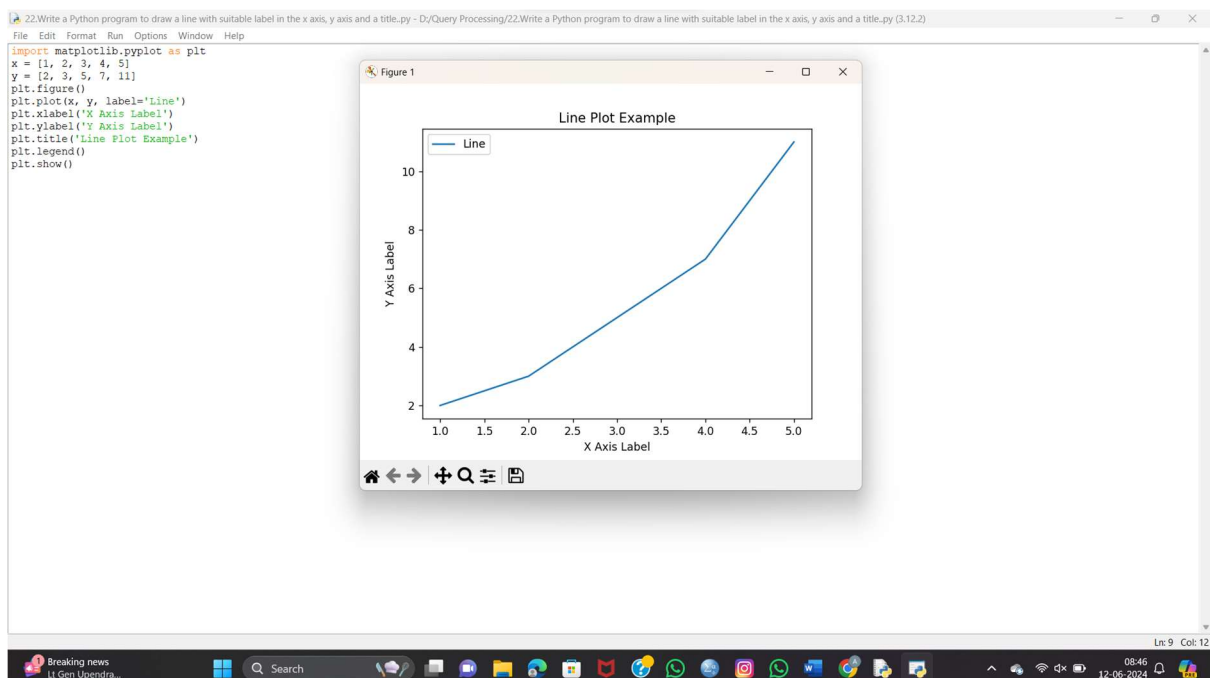
21. Write a Pandas program to swap the cases of a specified character column in a given DataFrame.

```
21. Write a Pandas program to swap the cases of a specified character column in a given DataFrame.py - D:/Query Processing/21. Write a Pandas program to swap the cases of a specified character column in a given DataFrame.py (3.12.2)
File Edit Format Run Options Window Help
import pandas as pd
data = {
    'Name': ['Alice', 'Bob', 'Charlie', 'David'],
    'Age': [24, 30, 22, 35],
    'City': ['New York', 'Los Angeles', 'Chicago', 'Houston']
}

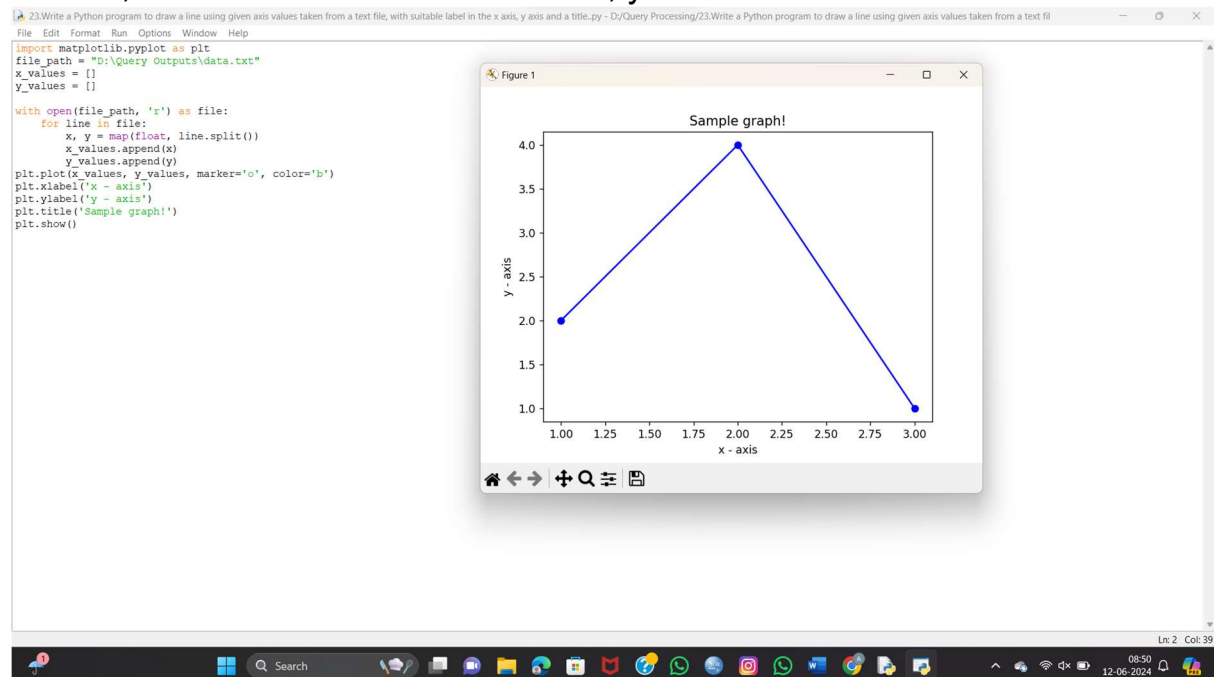
df = pd.DataFrame(data)
def swap_case_column(df, column_name):
    df[column_name] = df[column_name].apply(lambda x: x.swapcase())
    return df
df = swap_case_column(df, 'Name')
print(df)
```

```
IDLE Shell 3.12.2
File Edit Shell Debug Options Window Help
Python 3.12.2 (tags/v3.12.2:6abddd5, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/Query Processing/21. Write a Pandas program to swap the cases of a specified character column in a given DataFrame.py
      Name Age   City
0  ALICE  24 New York
1   BOB  30 Los Angeles
2 CHARLIE 22  Chicago
3  DAVID  35  Houston
>>>
```

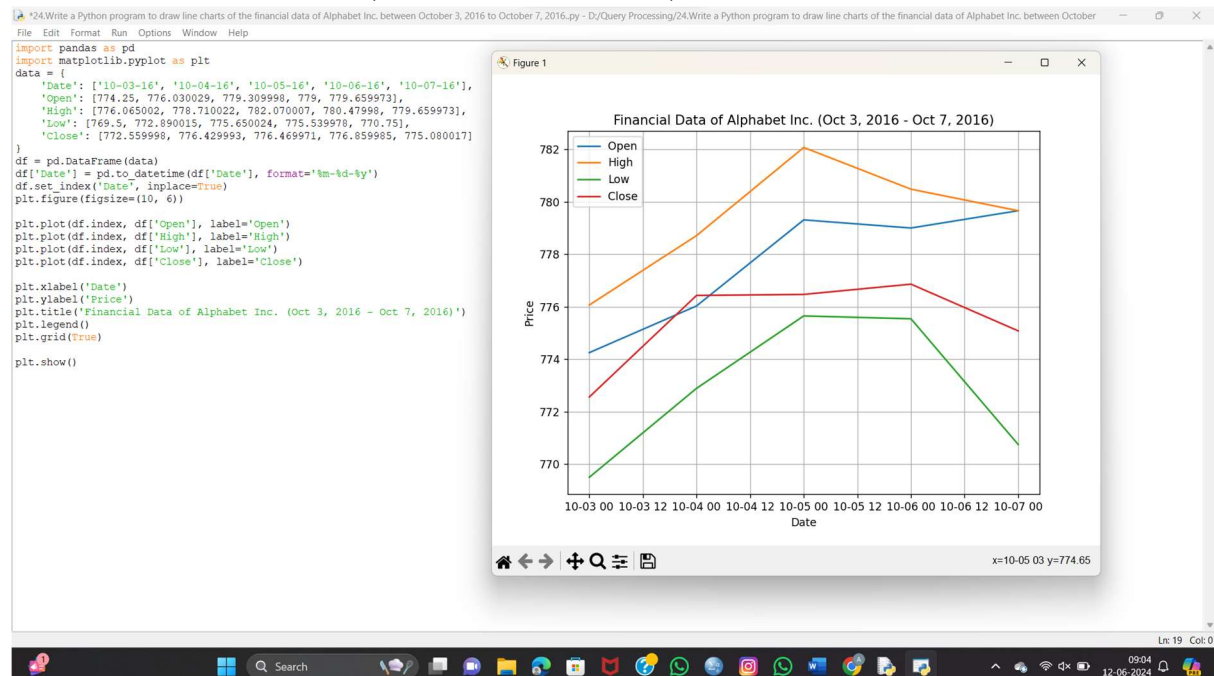
22. Write a Python program to draw a line with suitable label in the x axis, y axis and a title.



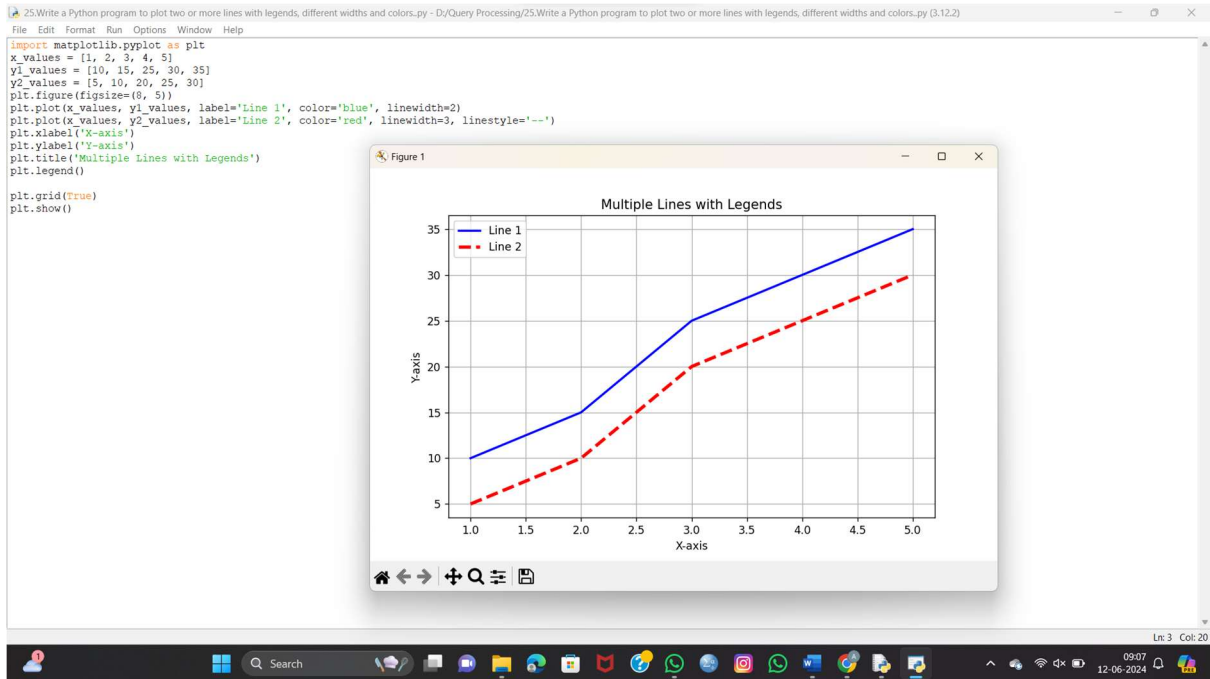
23. Write a Python program to draw a line using given axis values taken from a text file, with suitable label in the x axis, y axis and a title.



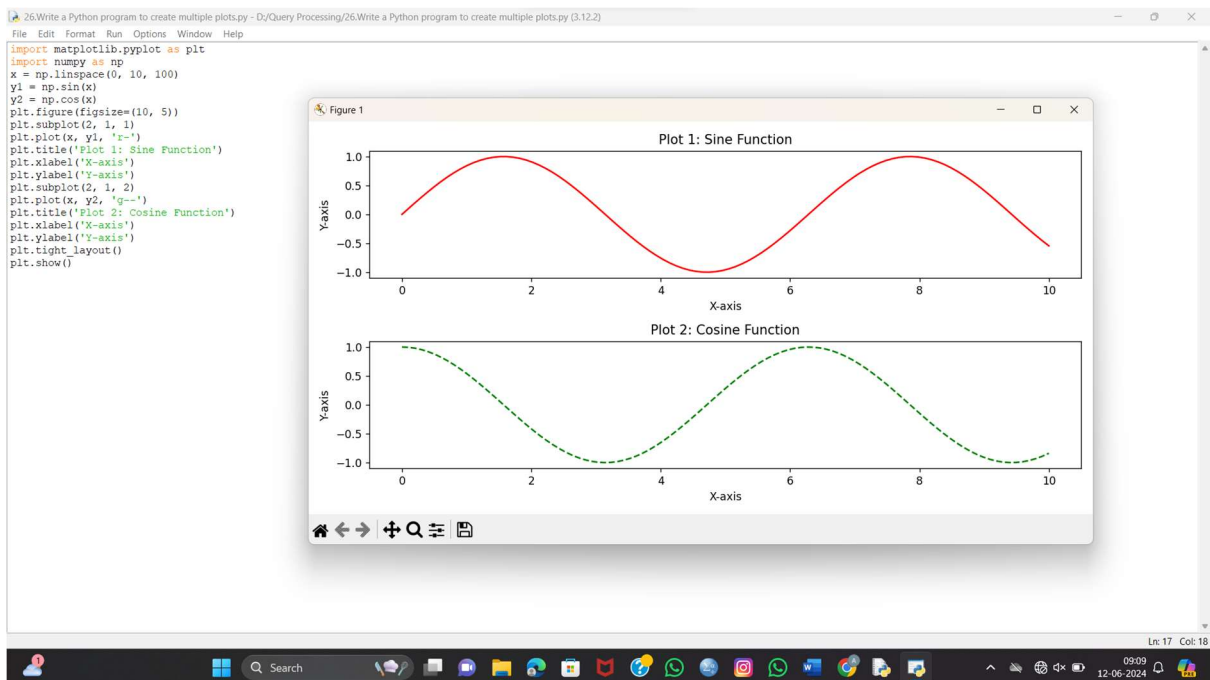
24. Write a Python program to draw line charts of the financial data of Alphabet Inc. between October 3, 2016 to October 7, 2016.



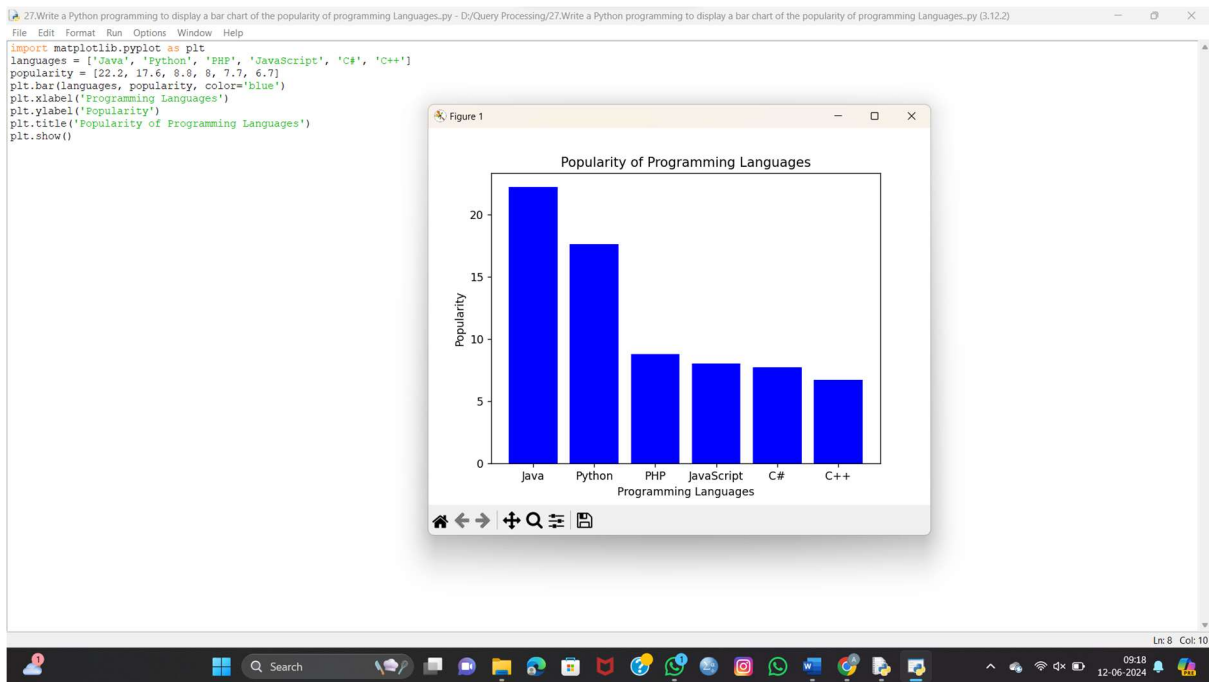
25. Write a Python program to plot two or more lines with legends, different widths and colors.



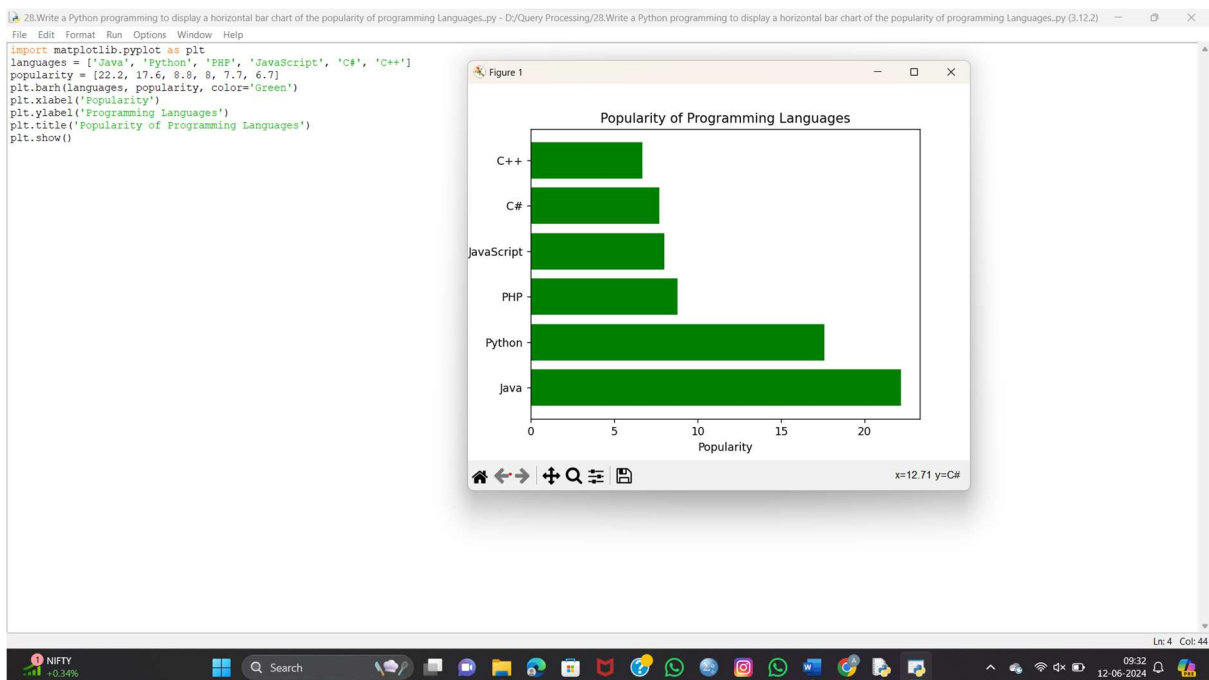
26. Write a Python program to create multiple plots.



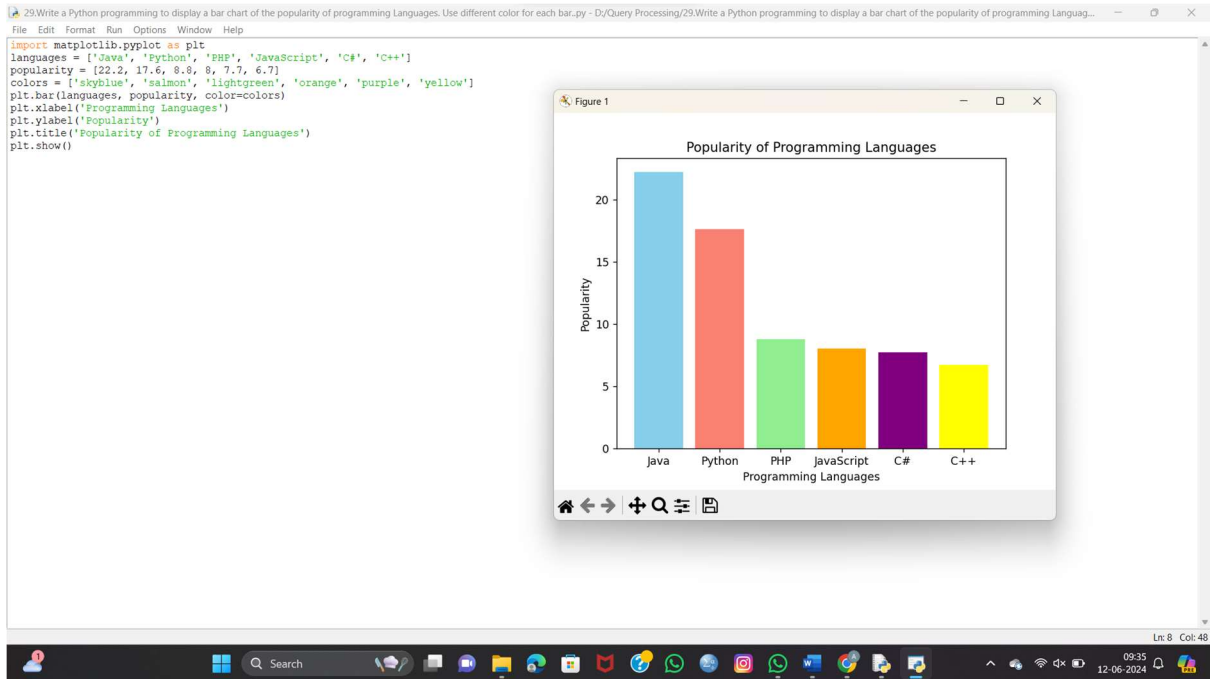
27. Write a Python programming to display a bar chart of the popularity of programming Languages



28. Write a Python programming to display a horizontal bar chart of the popularity of programming Languages.



29. Write a Python programming to display a bar chart of the popularity of programming Languages. Use different color for each bar.



30. Write a Python program to create bar plot of scores by group and gender. Use multiple X values on the same chart for men and women.

