

Task-10 : USE MATPLOTLIB MODULE FOR PLOTTING IN PYTHON

Aim : To use matplotlib module for plotting in python.

Problem: To

write a python programming to display a bar chart of the popularity of programming languages.

Sample Data :

programming languages : java, python, PHP, javascript, c#, c++
popularity : 22.2, 17.6, 8.8, 8.7, 7.7, 6.7

ALGORITHM :

1. Define two lists for programming languages, their popularity respectively.
2. Find the max popularity value in list.
3. Define a scaling factor to scale the bar heights with a certain limit.
4. For each language & popularity pair, calculate the bar height as popularity value scaled by the scaling factor.
5. Print the chart

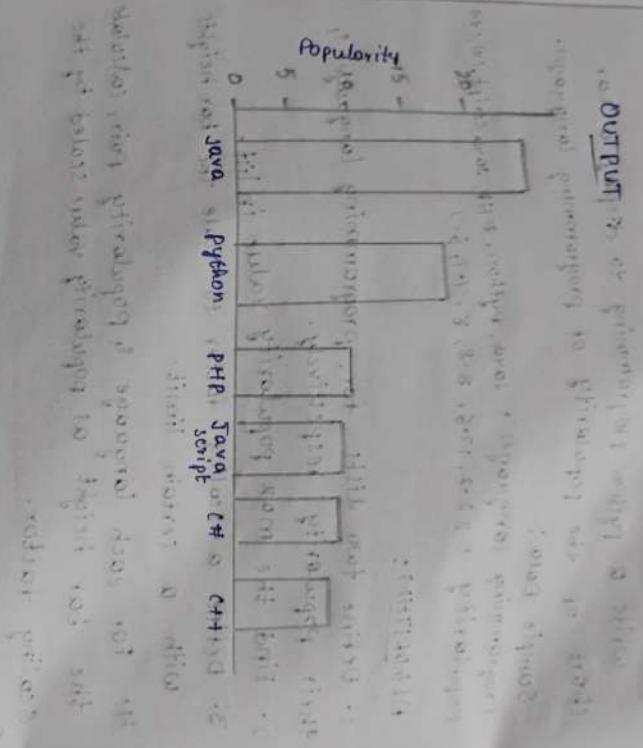
A PROGRAM :

```
# pip install matplotlib
import matplotlib.pyplot as plt

languages = ['java', 'python', 'PHP', 'javascript', 'c#', 'c++']
popularity = [22.2, 17.6, 8.8, 8.7, 7.7, 6.7]

plt.bar(languages, popularity, color='b')
```

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models [Long, 1997; Muthén, 1989; Satorra, 1989].

```
plt.title('Popularity of programming languages')
plt.xlabel('Programming languages')
plt.ylabel('Popularity')
plt.show()
```

RESULT: Thus the python program use matplotlib module for plotting is executed & verified successful.

