

<sup>slides</sup> Task 10 to Use Matplotlib module for plotting in Python

AIM :- To use Matplotlib module for plotting in python.

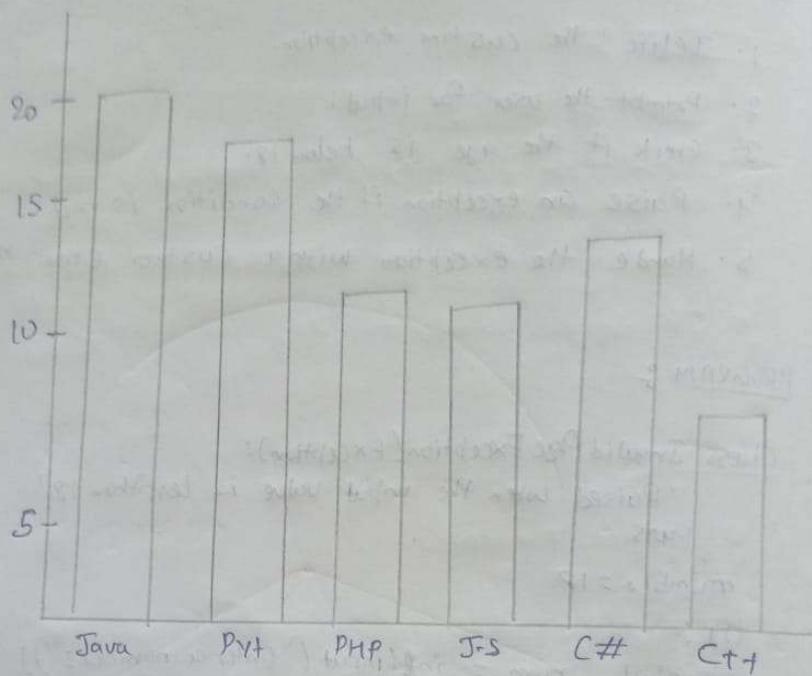
#### ALGORITHM :-

1. Define two list for programming languages and their popularity respectively.
2. Find the max popularity value in the list.
3. Define a scaling factor to scale.
4. For each language and popularity pair, calculate the bar height as the popularity value scaled by the scaling factor.
5. Print the chart using a loop to iterate over the programming language list.

#### Program :-

```
import matplotlib.pyplot as plt  
languages = ['Java', 'Python', 'C++']  
Popularity = [22.2, 17.6, 8.8]  
plt.bar(languages, Popularity, color='b')  
plt.title('Popularity')  
plt.ylabel('Programming language')  
plt.show()
```

Output 3



Popularity of programming,

10.2 → ALGORITHM :-

1. Create a list of Programming Languages
2. Create a pie chart using the matplotlib library
3. Set the title and legend for pie chart.
4. Show the pie chart.

Program :-

```
import matplotlib.pyplot as plt
languages = ['Java', 'Python', 'C++']
Popularity = [22.2, 17.6, 8.8]
plt.title('Popularity')
plt.legend(languages, loc="best")
plt.show()
```

VEL TECH - 001	
EX NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
DATE	15/07/2018

RESULT :- Thus, the python program use matplotlib module for plotting is successfully executed.

Output :-

