

## Task 10: 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.

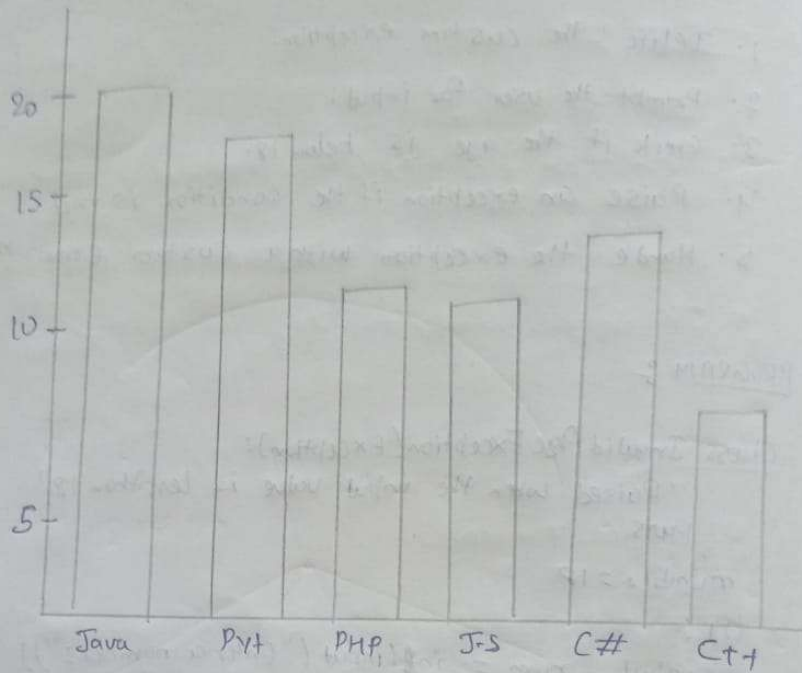
### Program:

```
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

15/10/25

## 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.

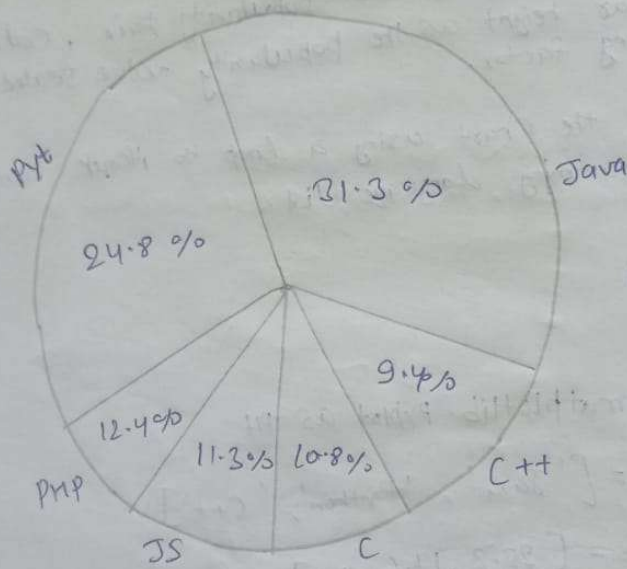
## Program :-

```
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 - 2025	
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RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	
DATE	15

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

Output :



Popularity of  
Programming  
Languages.