

*Program:-
import matplotlib as plt

languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C', 'C++']

Popularity = [22.2, 19.6, 8.8, 8.7, 6.7]

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

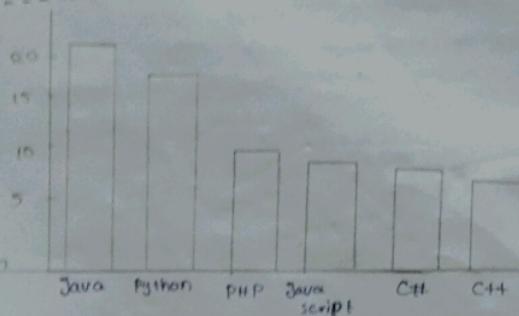
plt.title('Popularity of Programming Languages!')

plt.xlabel('Programming Languages!')

plt.ylabel('Popularity!')

plt.show

Output:-



TALK-10

Date: 29/9/23

use matplotlib module for plotting in .

Python :-

Aim:- To use Matplotlib module for plotting in Python.

Problem 10.4:- write a python programming to display a bar chart of the popularity of Programming languages.

Sample data:-

Programming languages:- Java, Python, JavaScript, C, C++, PHP

Popularity:- 22.2, 19.6, 8.7, 6.7, 8.8

Sample output:-

Algorithm:-

1. Define two lists of Programming language and their popularity respectively.
2. Find the maximum popularity value in the list.
3. Define a scaling factor to scale the bar heights within a certain limit.
4. For each language and popularity pair, calculate the bar height as the popularity value scaled.
5. Print the chart using a loop.

*Program:-

```
import matplotlib as plt
```

```
languages = ['Java', 'Python', 'PHP', 'Javascript', 'C#', 'C++']
```

```
popularity = [22.2, 17.5, 28.8, 8.7, 7.7, 6.7].
```

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

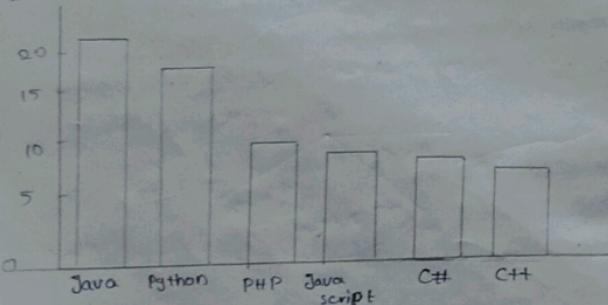
```
plt.title('Popularity of Programming Languages')
```

```
plt.xlabel('Programming Languages')
```

```
plt.ylabel('Popularity')
```

```
plt.show
```

Output:-



Task-10

Date: 29/9/25

QSE Matplotlib module for plotting in

Python:-

Aim:- To use Matplotlib module for plotting in Python.

Problem 10.4:- write a Python Programming to display a bar chart of the popularity of Programming Languages.

Sample data:-

Programming languages:- Java, Python, Javascript, C, C++, PHP

Popularity:- 22.2, 17.5, 28.8, 8.7, 7.7, 6.7

Sample output:-

Algorithm:-

1. Define two lists of Programming language and their popularity respectively.
2. Find the maximum popularity value in the list.
3. Define a scaling factor to scale the bar heights within a certain limit.
4. For each language and popularity pair calculate the bar height as the popularity value scaled.
5. Print the chart using a loop.

Program:

```
import matplotlib.pyplot as plt
languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++']
popularity = [22.2, 17.6, 8.8, 8.4, 7.6, 5.5]
```

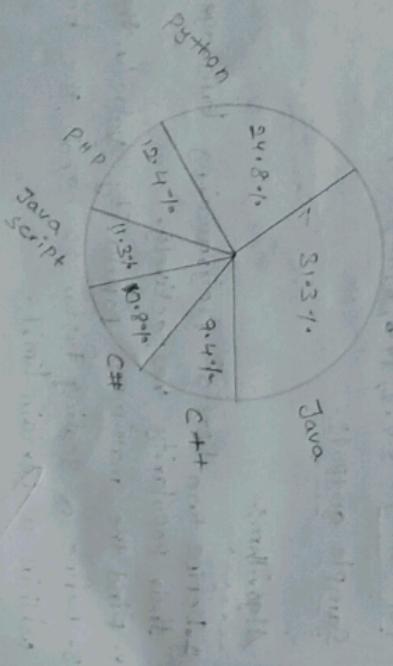
```
plt.pie([popularity], labels=language, autopct='%.1f%%')
```

```
plt.title('Popularity of Programming languages')
```

```
plt.legend(languages, loc='best')
```

```
plt.show()
```

Output:



Problem 10.2: - write a Python program to create a pie chart of the popularity of programming languages.

- output :-

Sample data :-

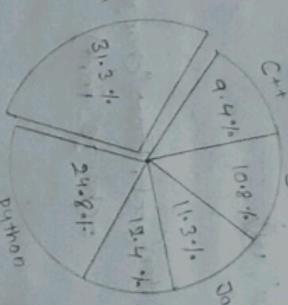
Programming languages : Java, Python, PHP, JavaScript, C#, C++.

Popularity : 22.2, 17.6, 8.8, 8.4, 7.6, 5.5

Algorithm:

4. Create a list of Programming languages and popularity.

2. Create a pie chart using the matplotlib library.
3. Set the title and legend for the pie chart
4. Show the pie chart.



VELTECH

EX NO.	PERFORMANCE (5)	RESULT AND ANALYSIS (5)	VIVA VOCE (5)	RECORD (5)	TOTAL (20)	SIGN WITH DATE
EX NO.	PERFORMANCE (5)	RESULT AND ANALYSIS (5)	VIVA VOCE (5)	RECORD (5)	TOTAL (15)	SIGN WITH DATE
EX NO.	PERFORMANCE (5)	RESULT AND ANALYSIS (5)	VIVA VOCE (5)	RECORD (5)	TOTAL (15)	SIGN WITH DATE
EX NO.	PERFORMANCE (5)	RESULT AND ANALYSIS (5)	VIVA VOCE (5)	RECORD (5)	TOTAL (15)	SIGN WITH DATE
EX NO.	PERFORMANCE (5)	RESULT AND ANALYSIS (5)	VIVA VOCE (5)	RECORD (5)	TOTAL (15)	SIGN WITH DATE

Conclusion: Thus the python program use matplotlib mobile for plotting is executed and verified successfully.