

* Program:-

```
import matplotlib as plt
```

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

```
popularity = [22.2, 17.6, 8.8, 2, 7.7, 6.7]
```

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

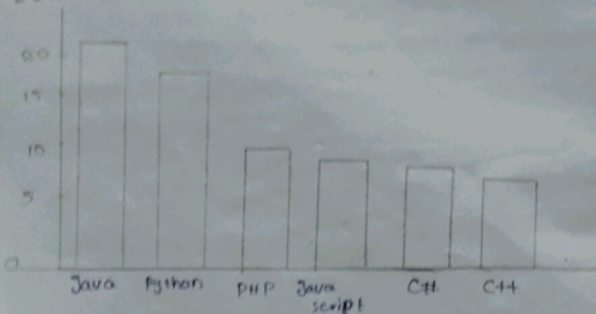
```
plt.title('Popularity of Programming Languages')
```

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

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

```
plt.show
```

Output:-



TASK-10

Date: 29/9/23

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, 17.6, 8.8, 2, 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 height 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, 17.6, 8.8, 8.7, 7.7, 6.7]
```

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

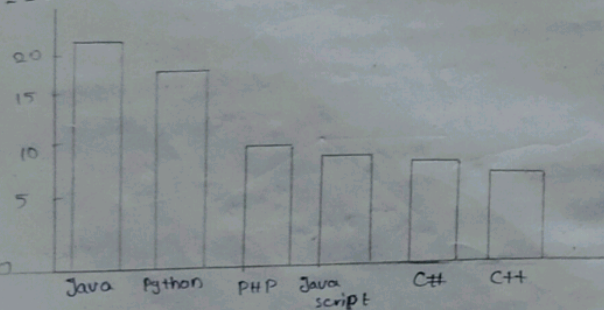
```
plt.title('Popularity of Programming Languages')
```

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

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

```
plt.show
```

Output:-



TASK-10

Date: 29/9/25

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, 17.6, 8.8, 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, 27.7, 6.3]

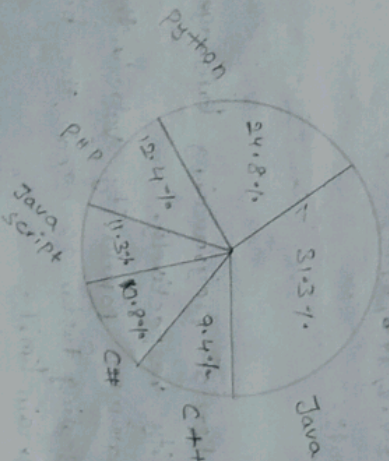
plt.pie (Popularity, labels = languages, autopct = '%1.1f

plt.title('Popularity of programming languages')

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

plt.show()

Output:-

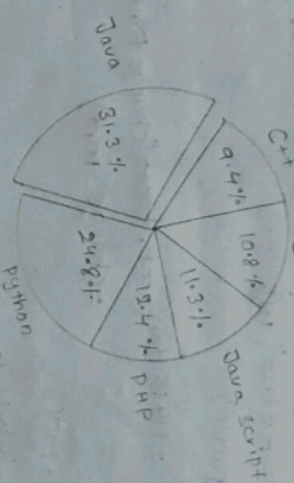


Problem 10.9:- write a Python Programming to Create a pie chart of the Popularity of Programming languages.

Sample data:-

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

Popularity: 22.2, 17.6, 8.8, 27.7, 6.3, 6.3



Algorithm:-

1. 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.

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VEL TECH	
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PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
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Conclusion:- The Python Program Use Matplotlib module for plotting is executed and verified successfully.