

Task 10
15/10/25

Use matplotlib module for plotting
in python

Aim: To use matplotlib module for plotting
in python.

Algorithm: Define two list for 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 with in a certain list.

4. For each language and popularity pair,
calculate bar height as the scaling
factor.

5. Print the chart using a loop to iterate
over the programming language list a
print the language name and a separator
character (e.g. "\n") b use a loop to print
bar chart by printing the bar character,
a number of times equal to the
bar height c. print the popularity.

Program:-

```
# Pip install matplotlib
```

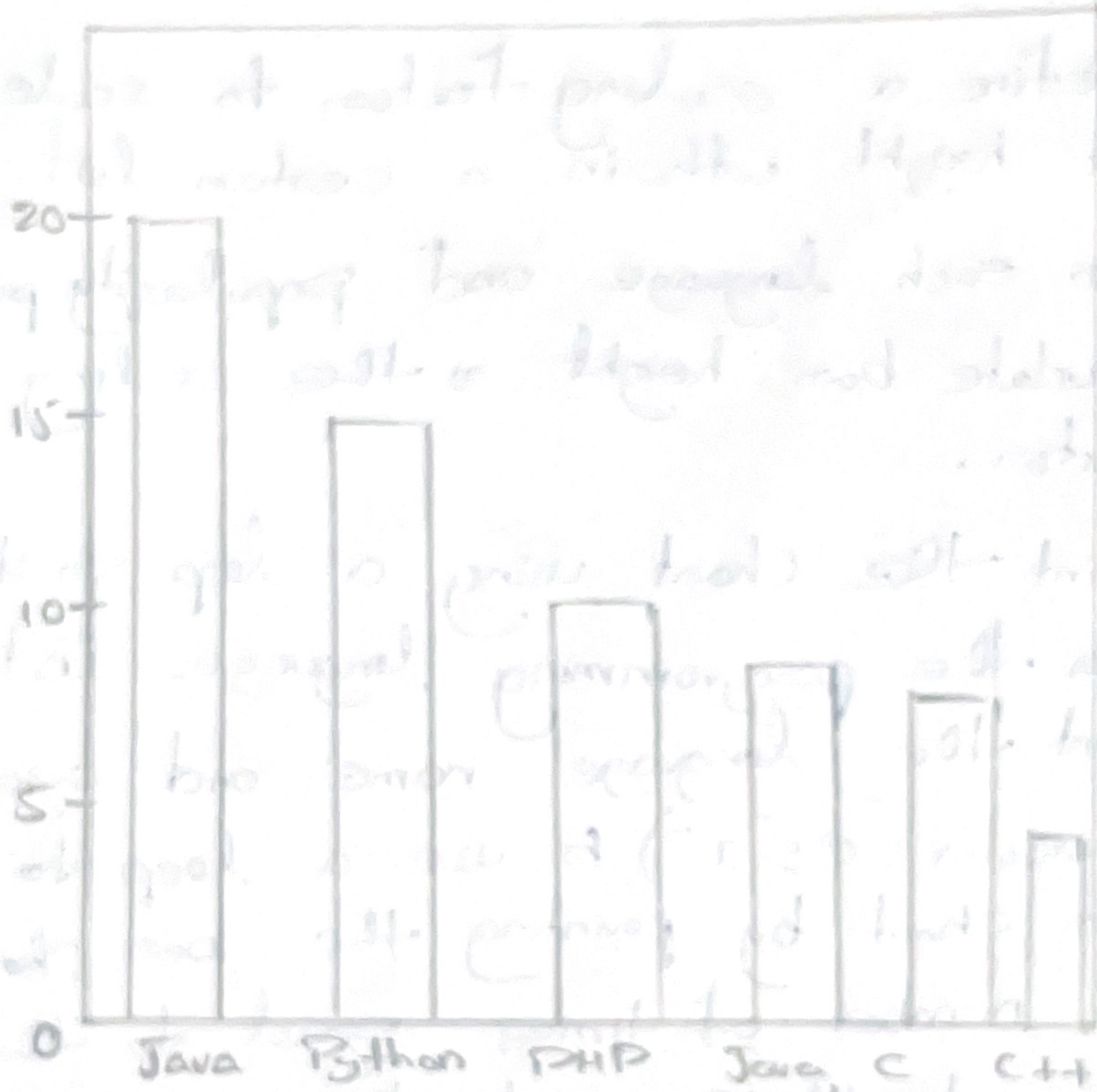
```
import matplotlib.pyplot as plt
```

```
languages = 'Java', 'Python', 'PHP', 'JavaScript', 'C++', 'Go'
```

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

```
plt.bar(languages, popularity, color='b')  
plt.title('Popularity of Programming Languages')
```


Popularity of Programming languages

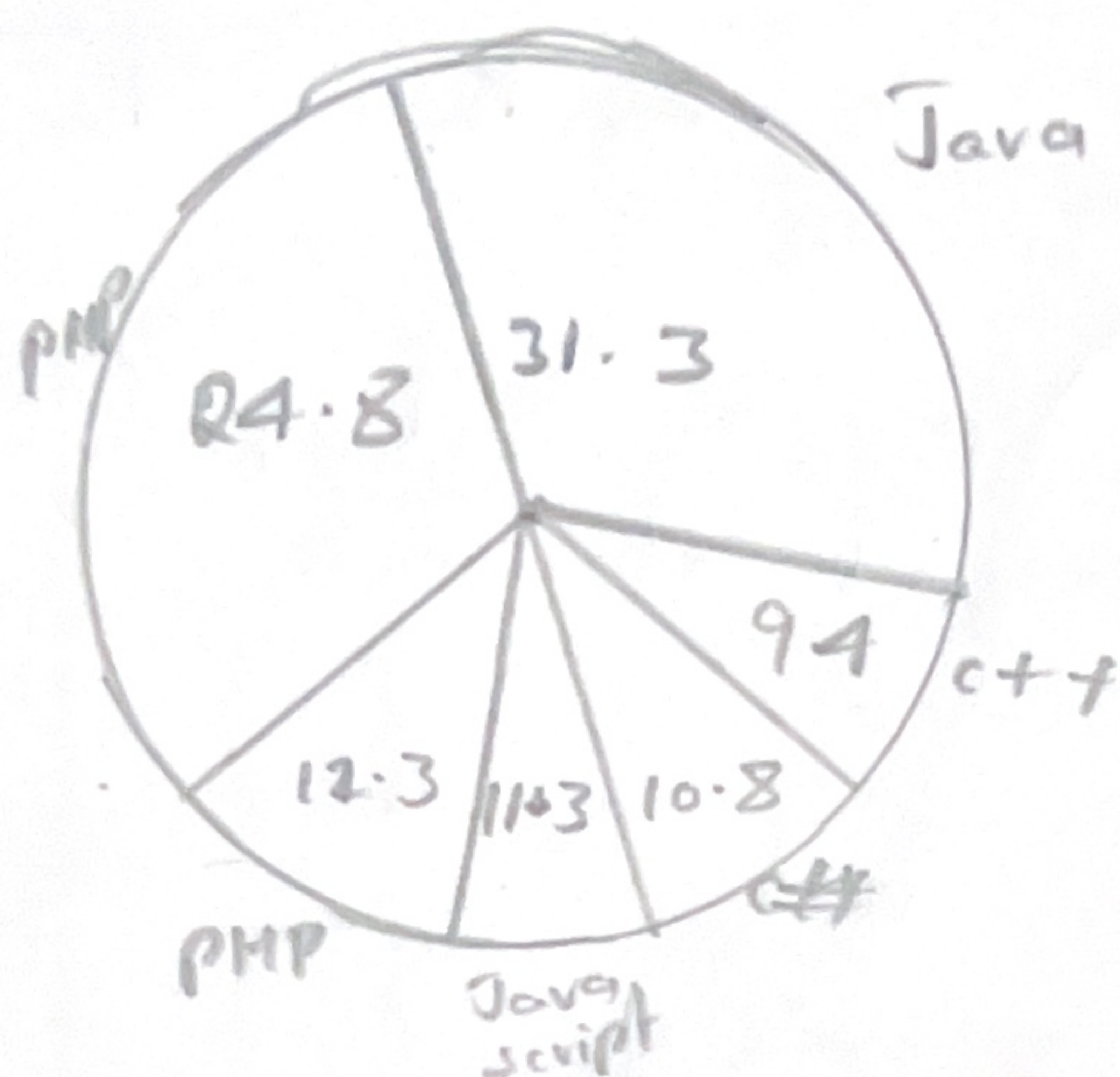



```
plt.xlabel('Programming Languages')  
plt.ylabel('Popularity')  
plt.show()
```



Result: Thus, the C program matplotlib module for plotting in python is successfully verified.

(Computer programming) Models, MS
 (Chadlog T) Models, MS
 (Dennis, 19)



The C program is written in C language. The C language is a high-level language. The C language is a general-purpose language. The C language is a structured language. The C language is a compiled language. The C language is a portable language. The C language is a free language. The C language is a standard language. The C language is a widely used language. The C language is a powerful language. The C language is a flexible language. The C language is a robust language. The C language is a secure language. The C language is a reliable language. The C language is a stable language. The C language is a consistent language. The C language is a predictable language. The C language is a transparent language. The C language is a simple language. The C language is a clean language. The C language is a clear language. The C language is a concise language. The C language is a compact language. The C language is a concise language. The C language is a compact language. The C language is a concise language. The C language is a compact language.

Task 10.2 Write a python programming to create a pie chart of the popularity of programming.
15/10/25

Aim: To write a python programming to create a pie chart of the popularity of programming.

Algorithm:

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

Program:

```
import matplotlib.pyplot as plt
```

```
#step 1
```

```
languages = ['Java', 'Python', 'PHP', 'Javascript', 'C#', 'C++']  
popularity = [22.2, 17.6, 8.8, 7.7, 6.7]
```

```
#step 2
```

```
plt.pie(popularity, labels=languages, autopct='%1.1f%%')
```

```
#step 3
```

```
plt.title('Popularity of Programming Languages')  
plt.legend(languages, loc='best')
```

```
#step 4
```

```
plt.show()
```

VELTECH	
EX No.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	5
VIVA VOCE (3)	5
RECORD (4)	5
TOTAL (15)	15
SIGNATURE DATE	

Result: Thus the python program using Matplotlib module for plotting is executed & verified successfully.