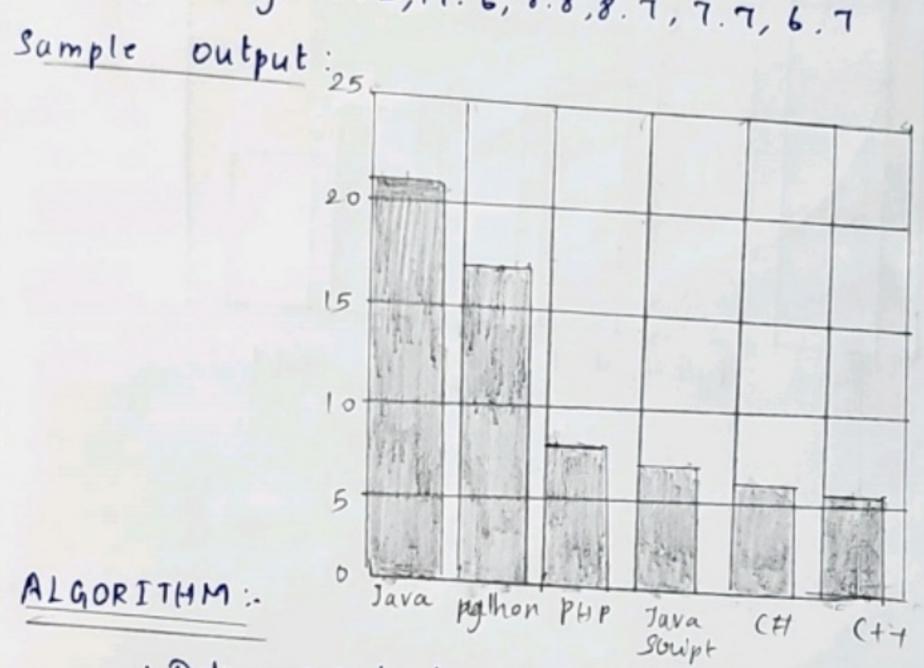
Task 10- use Matplotlib module for plotting in python

Buse Matplotlib module por plotting in Python

10.1) write a python programming to diplay a bar chart of the popularity of programming Languages.

Sample data:

Programming language; Java, Python, PHP, Java Script, C# Popularity: 22.2,17.6,8.8,8.7,7.7,6.7



1. Define 2 lists for programming languages and their popularity respectively

2. Find the maximum popularity value in the list 3. Define a Scaling factor to scale the bare heights within a certain limit.

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:

#Pip install matplotlib

import matplotlib, pylot as plt

languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C#',

Popularily = [22.2,17.6,8.8,8,7.7,6.7]

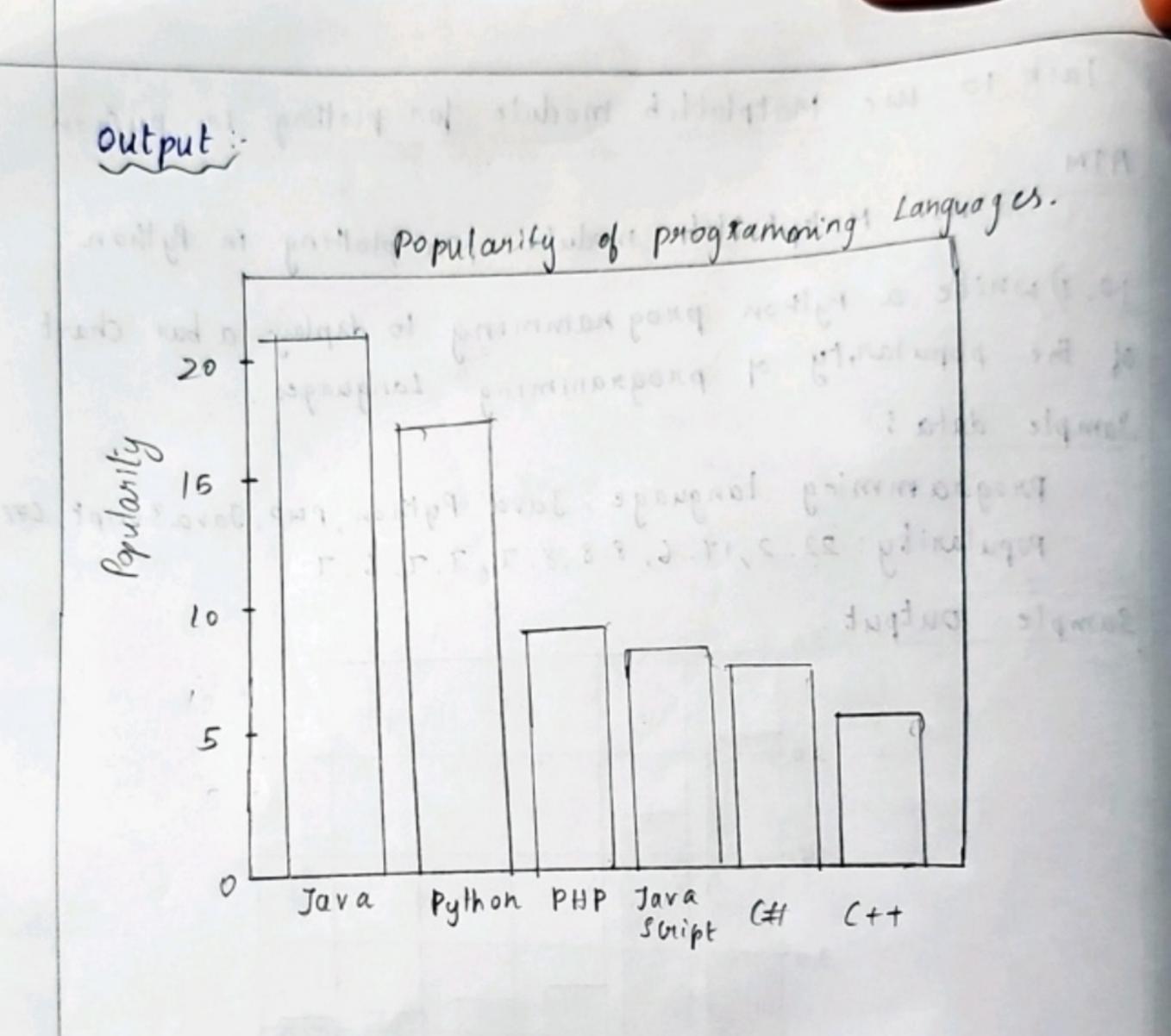
Plt. ban Clanguages, popularity, (olor=16)

Plt. title ('Popularity of programming Languages')

Plt. xlabel ('Programming Languages')

Plt. ylabel ('Programming Languages')

Plt. Show ()



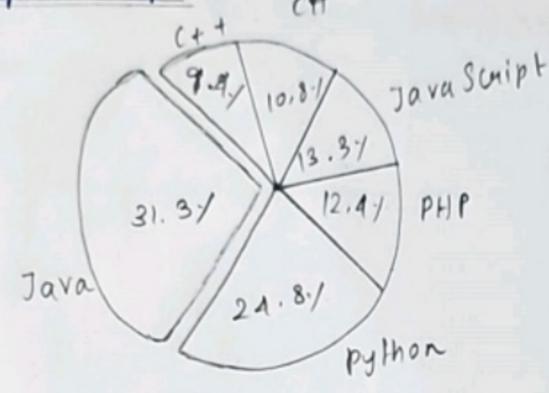
ALGORITHM.

Prob 10.2) write a python programming to Greate a pie chart of the popularity of programming Languages.

Sample data: Pragramming lang: Java, Python, PHP, Java Script, C#, C++

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

Sample output:



ALGORITHM:

- 1. Create a lut of programming Languages and popularity.
 - 2. Create a pie chart using the matpholib library
 3. Set the title and legend for the pie chart
 A Show the pie chart

PROGRAM: import matpollib. pyplot as plt

H skep 1

languages = ['Java', 'python', 'PHP', 'JavaScript', '(#', '(++')]

Popularity = [22.2, 11.6, 8.8, 8.7.7, 6.7]

Skep 2

Plt. Pic (popularity, labels = languages, autopet = 'x1.14/./')

Plt. Hitle ('popularity of programming Languages')

Plt. Show ()

RESULT:

Thus the python program use Mat plotlib module for plotling is executed and verified untakenfullys (5)

VIVA VOCE (5)

RECORD (5)

TOTAL (20)

SIGN WITH DATE

output:

popularity of programming Languages

