use Matplotib module for Plotting in Python

Aim: To use matplotib module for plotting in python -> write a python programming to display a barchart of the popularity of programming language

Algorithm

> Detine two lists for programming languages and their populariby respectively

a find the maximum popularity value in the list

- Define a scaling factor to scale the box heights within a certain limit

-> for each longuage and popularity pair, calculate the bax height as the popularity value scared by the scaling

print the chart using a loop to sterate over the Programming language list: a.

program:

pip install matplotib import matplotilb pyplot as plf

Languages = ['Java', 'python', 'PHP', 'Javascript', C#', 'c++'] Popularity = [22.2,17.6, 8.8,8,7.7,6.7]

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

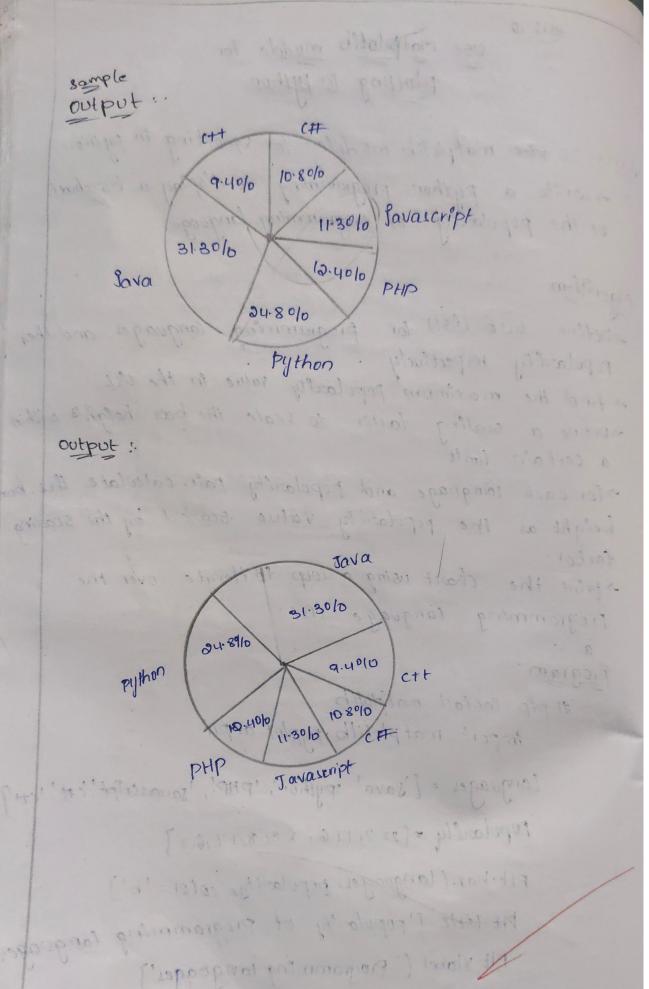
PIt-little ('popularity of programming languages')

Plt- xlabel (' Programming tanguages')

PIt. Ylabel ['Popularity']

PIt-show (7

the soveted and exception (freelight). e work of pared cohen the hips volve for (8) and 129 2209 output popularity of programming languages The new sint input! Later a purbary et faput - nun anumber. 19 of old "g" 19") to ", 9 except savoud age exc pypo moingony?" Horixa lo 5 -Python PHP Java script Java Thus, the pregram for implement & ception estimal handling is evenired & verified 1311, 13192000



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

algorithm :

> create a list of programming languages and popularity > create a pie chart using the matplotib library.

-> set the title and legend for the piechout.

> show the pie chart

Program :-

import matplotlib pyplot as plt

step 1

languages = ['Java', 'python', 'pHP', 'Javascript', 'CH', 'c++']
Popularity = [22.2, 17.6, 18.8, 8,7.7,6.7]

step 2

PIt · pie (popularity, labels = languages, autopet = '0/01.1 fo/0/0

step 3

Plt-title l'populacity ot programming languages']

Plt-legend (languages loc = "bestie TECH

#step-4
plt-showl

EX NO.

PERFORMANCE (5)

RESULT AND ANALYSIS (5)

VIVA VOCE (5)

RECORD (5)

TOTAL (20)

SIGH WITH DATE

Result! Thus the python program use mat plotlib module for plotting is executed & verified success ful.