use matplottib module for plotting inpython

orm! To use matplotlib module for plotting in python.

Problem 10.1 Write a python programming to display above chall of the popularity of programming language.

Cample destal.

Programming Canquege + Java, Python,
PHP, Java · Cript, C+++ popularity.
22.2,17.6,8,8,3,7,6.2.

A gorithm

1. Define Levo list for programming language and their propulacity respect.

2. Pind the manimum-popularity

value in the list.

3. Detine a scaling fautor too scale the base heights within a ceptain limit (eg:50 · Chaeacters)

in for each language and popularity

port italianate the bose height as

the popularity value scaled.

by the scaling tentor.

5. Print the Chart using a loop to

Therate over the programing language

list is a more that language

Stript the Chart turing a loop to steader over the programing language have and list: 9, print the language neume and as Separator character (cy 11/11) 16. Like of loop toprint the box chart by printing the box character. (e.g. Mail) a number of times equal to the box height c. print the popularity value with a separator. Character of many realize with a separator.

Program.

pip timed Matplottib.

cimport mat plottib · pyplot & pt.

language = [thua!, 'python', 'php!!

Javous cript 1, 1041, 10417 Popularity = [22~2,177-6,8,8,7-7,6,8]

Popular Afy by programmed land ocupett worldwide ou sens compared the 20 17 Cana Pyth PHP Tava C+ Jay of brings of DI to I large s world to thomoget rollies subject thisology with Character of more a new him elicanies . (workar) -diffolg-Land Horric sig 1/2 My by ratard. filleton and antholist 10011, 1481, 1 19 mm

Pt. show ((angreage, popularity, color="b")

pt. Affle ('popularity of programming (angrege')

pt. Alabel ('programming · languages')

pt. Show ()

Result: Theus the Python Program
is realphothing in python is guessfally
oneweel

ocupun popularity CRX d'ax) 113-13 112.ws. 949 24.81 Payhor

problem 10.2 write a python programming to create a pire chart to the popularity of programming language.

Dim: Houte use create capie chaet of the popularity python program.

-Algorithm

1. Create a list of programming Conguages and popularity.

2. Create et pie Chart using the mest-plothib library.

3. get Rutifle and legend for the

U. Thow the pie chaet

Program: import mataloldib. pyplot as ps. the step)

kinguages = ['Jana', 'python', 'pri', 'Jana', 'python', 'python', 'pri', 'Jana', 'python', 'pri', 'Jana', 'python', 'python', 'pri', 'Jana', 'python', 'python',

Step 2

Plt. Pie (popularity , labels = lang wages,
outopet = '-1.1.16/-1.17

Step 3

Plt. title (! popularity of programming

languagies:)

languagies!

Pt. begend (languages, loc = "best")

thepy

Pt. Show()

EX-NO,	10-
PÉRFURMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3) -	3
RECORD (4)	4
TOTAL (15)	
SIGN WITH DATE	la

Result! Thus, the python program un neitplothis module for plotting is onewed and reined successfully