las1c:-10 Task: 10: We matplatlib module for plotting in python. Aim: To use mat plotteb module for plotting in python. Algorithm: 1. Define two lists for programming larguages and their. Popularity respectively. 2. Find the maximum popularity volve 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 box height as the popularity valve scaled by the scaling factor. 5. Point the chart using a loop to Plesate over the Poogs. amming language list: a. Frint the language name and a seposa tox character used loop to point the bar chart by Pointing the bon character (e.g. *") a number of times expeal to the boun height C. Point the popularity value with a separator character d. Printa newline character Program! # Pils install mat Hotlib. impost mat plotlis . Py plot aspt! languages = [' Java' / Fython, PHP', I Java script, cott, cott Popularity = [22.2,17.6,8.8,8,7.7,6.7] PI+. boon (tanguages, populatity, colour =16) PIt. + THE ('PUPULATING of Programming Canguagey') PI+ . Xlabel (' programming languages') PIT. y label (ropularity) PIt . Shoot)

Totalogity of programm 12.41 (Himalingon') todal E. I'm

Droppen 10:5: - white a Lithou Leakoumend to create a big chast of the Ferniary of programming languages Algorithm: 1. create a list of programming, languages and popularish 2. create a pie chast wing the mat plotlib library. 3. Set the title and regard for the prechast. show the prechart.

Program's

import matifation. Pyplot as pit.

Step 1

languages = ['Java', 'bython', 'bHP', 'Javascapl'(CH) tobrigatelà = [55.5 114.6 18.8 18.14.2.4. 8.2]

PI + . Pie (Popularity , labels = languages, outopd= 1/1.1+1/1)

Step 3.

PI+ .+ itle ('Papularity of programming languages') PIt. legerd (languages, loc="best")

#Stepy.

PI+ . Show()



Perut: Thus the python protestinge motelotlib. module for plotting is executed and vorified soccentrally.