Task 10: use Matplotlib module for plotting in python Aim: To use marphotlib module for plotting in python problem 10.1: - write a gython programming to display a bar chart of the popularity of programming languages. Rample data: Programming canguages: Java, python, ptp, Javasmipt CH, 14+ Popularity: 22.2, 14.6, 8.8, 8,7.7, 6.7 sample output? 10 Java Python pHP Javenscript (# Lunguages. L' Défine two lists for programming languages and their Algorithm: e paind the manimum popularity value in the 1in 7. Detre a scaling tackor to scale the bar neight within Canquage and populating pair, calculate thebas a certain limit. height as the popularity value scaled by the scaling factor. 5. print the chart using a loop to iterate over the programme longuage list a . grigh the languages name and separator Character & use a coop to print the bar chart by printing.

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Program: import matplotlib. pyplot as pt languages = [Java', 'pyshon', 'php', 'savousmiph', 'ch', 'con popularity= [22-2,17.6,8.8,7.7,6.7] pit. bar (languages popularity, color='b') plt. title (popularity of programming languages) plb. x label (programming (an grages) pit y label (popularity) pit. Show (10:2: write a python to create a pie chart of the Popularity of programming longuages a list of programming languages and popularity Algorithmi 2 Create a pie chart using the marphotlib library 3. Set the title and regard for the pie charb U. show the prechart. import matplotlib. Pyplot as pit languages = ['Java', ipython', iptp', Javascript', 'ctt'; c+t Popularity = [22, 2, 17.6, 8, 8, 8, 7, 7, 6.7] pit. pie Copularity, cabelle 2 languages, autopit = (1.1.11) Pit. fille ('paphasity, of oprogramming pet. legend [languages, loc = "baptatomance (5) P11- Show () Kesult: - Thus. the python programme of the python for plotting is frecuted and verified successful