Use Matplot lib module for plotting

Aire: To use Hatplot lib readule for plotting in python

10.1) Write a python programming to display a bac charit of the popularity of programming languages.

Algorithm:

1. Define two lists for programming languages and

their popularity respectively.

2. Find the max popularity value

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

4. For each language and popularity pair, calculate the box height as the popularity value

Scaled by the Scaling factor.

Program import matplotlib pyplot as plt

languages = ['Java', 'Pythori, 'PHP', 'Java Script', 'c#, 'c+t]

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

Plt. base (languages, popularity, colour='b')

Plt. title ('Popularity of programming languages')

Plt. xlable ('Program ming languages')

Plt. show ().

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Define the custom Exception regan with tymorg is a check it the age is below is 4. Prise are enception if the a Handle the exception 1515 class thralid Age Exception (Exception) for thegre ext med a bound? PHP estaglishment the source two in Language: redmost s min tagni je raise Invalid Age Exception

Print [" Elicyble to vote "]

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Use Matplet at module for plothing are to all Malphille of the profit of my thor i) write a python programming & display a los is it of the proutes to if i against of he grape 1. Perfer is the less programment and anoque and one or pulcesety someth Fired Fleeningers for Julies PATPX tolerounds 9.117. est of bell (collecte the scripting as 124989 dill to lation trager; lenguages: 1. Jan. Pathon, PAP, John Script o population flores 18 1 6 8 P.H. Land (Longerege, per when y colour 1) The fire of the property of the dealers of the fire en Almabando Buran a mas and Dalgadk His (1000 the

10.2 Write a python programming to create a pie chart of the popularity of programming languages. Algorithme:

1. Create a list of programming languages and popularity

2. Create a pie chart using the matplotlib library

3. set the title and legend for the pie chart

4. 8 how the pie chart.

Pro gram import matplot lib. pyplot as plt languages = [Java, Python, PHP, Javascript, C#, C++]

Popularity = [22.2,17.6,8.8,8,7.7,6.7] PEt. pie (Popularity, labels = languages, autopet=1%1.18%%) Plt. title ('popularity of programming language') Plt. kragend (languages, loc: "best")

Plt. Show () Result: Thus. the python program use matplot lib for plotting is excuted and veri fied successfully.

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