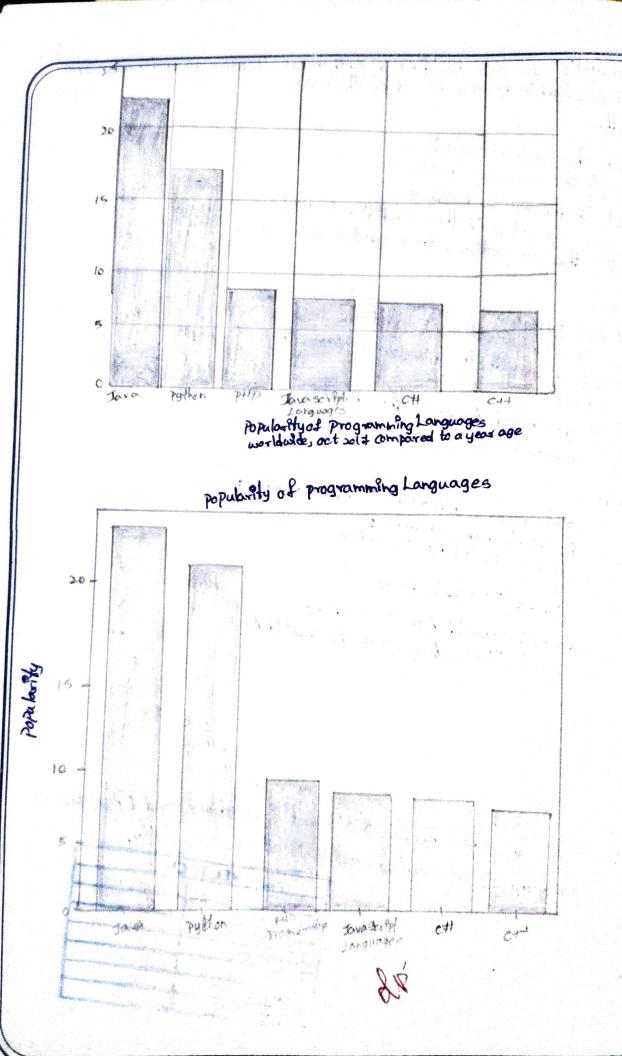
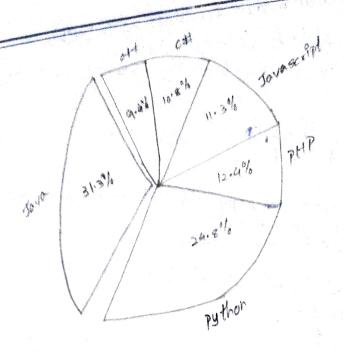
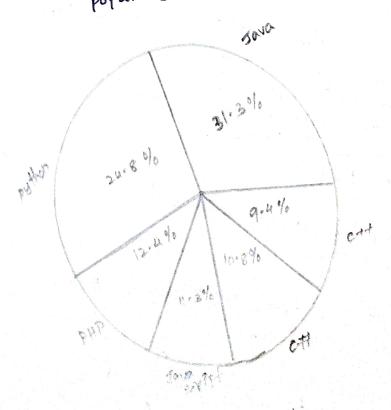
```
Task-10. use Matplotlib module for plotting in python
  Aim: - To use Matplotlib module for plotting in python.
 problem 10.1 write a python programming to display a box chat of the popularity of
 programming Languages.
 programming languages: Java, python, PHP, Jovascript, C#, C++
 sample data: -
 popularity: 22.2, 14.6, 8.8, 8, 4.7, 6.7
Define two lists for programming languages and their popularity respectively.
3) Define a scaling factor to scale the bax height as the popularity value scaled by the
For each language and popularity pair, calculate the bor height as the popularity value scaled L. He make
5) print the chart using a loop to leterate over the programming language list: a.
Print the language name and a separator character (e.g. 1") b. use a loop to print the har that he seems and a separator character (e.g. 1") b. use a loop to print
the box chart by printing the box character (e.g. "*") a number of times equal to the box height c. print the popularity value with a separator character d. Print a newline character.
 a newline character.
 program:
# Pip install matplotlib
      Proport matplotib. Pyplot as plt
       larguages = ['Java', 'Python', 'PHP', 'Javascript', 'C#', 'C++']
       Popularity=[22.2,14.6,8.8,8,7.7,6.7]
      Plt. box (languages, popularity, color='b')
      Plt. fitle ('popularity of programming languages')
       PIt·x label ('program ming Languages')
Problem 10.2. write a python programming to create a pre chart of the popularity
of programming Languages.
gample data:-
programming languages: Java, py thon, PHP, Javascript, c#, c++
 popularity: 22.2, 17.6, 8.8,8,7.7,6.7
oreate a list of programming Languages and popularity.
2) create a pie chart using the mat plot lib library.
3) set the title and legend for the ple chart.
4) show the pre chart.
```





popularity of programming Languages



Programs.

Import matplotlib. Pyplot as PH

step1

larguages = ['Java', 'Python', 'PHP', Javascript', 'CH', 'CH']

Popularity = [22.2, 17.6, 8.8, 8, 7.1, 6.7]

step2

pH. Pie (Popularity, labels = languages, autopot = '% 1.1f% o'ls)

pH. Pie (Popularity of programming Languages')

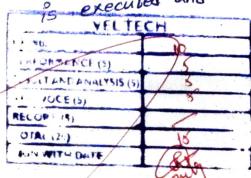
Plt. title ('Popularity of programming Languages')

plt. legend (languages, loc = "best")

step4

plt. show()

Result: - Thus the python program use matplotlib module for plotting



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PERFORMANCE (S)
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