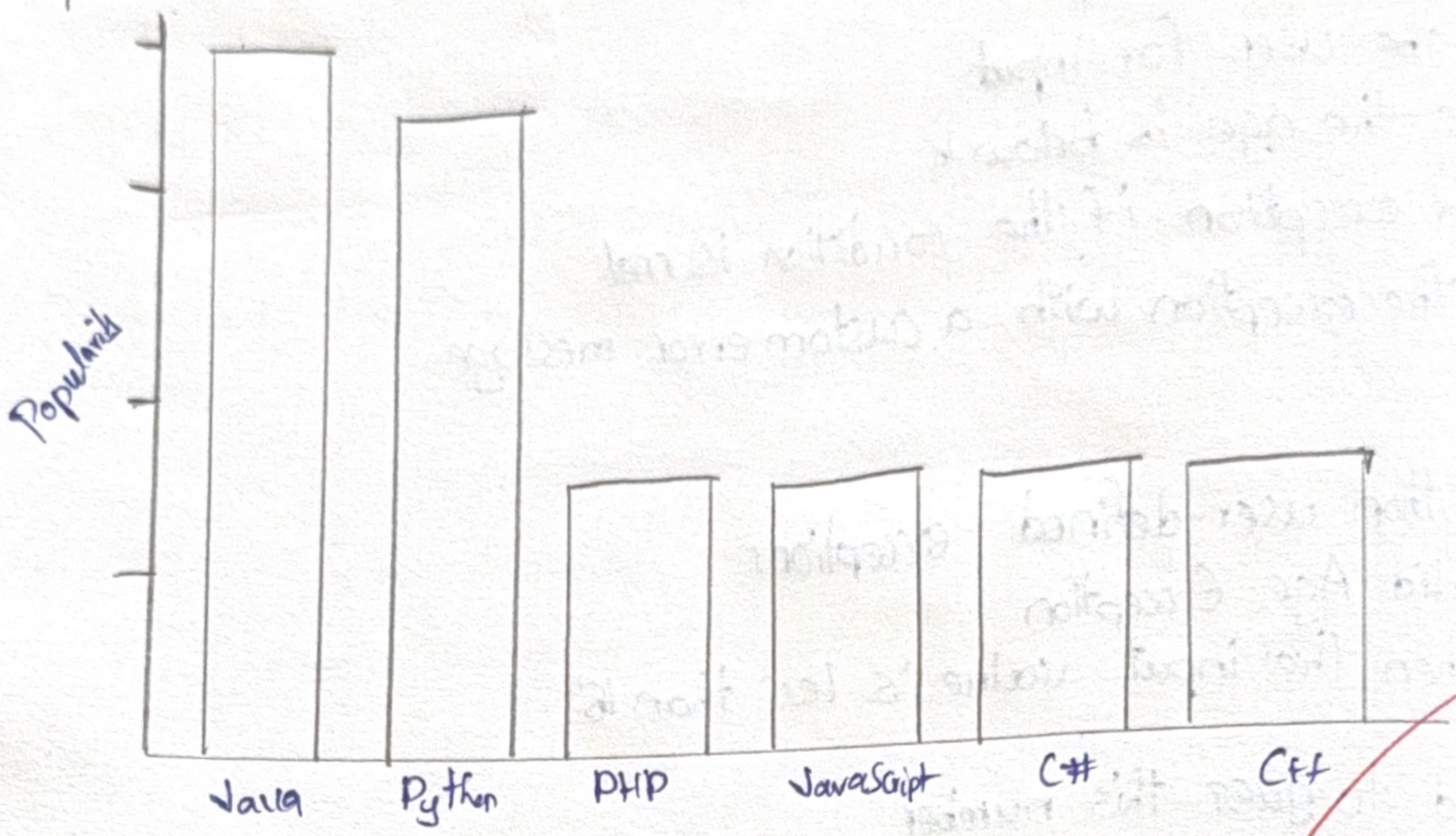
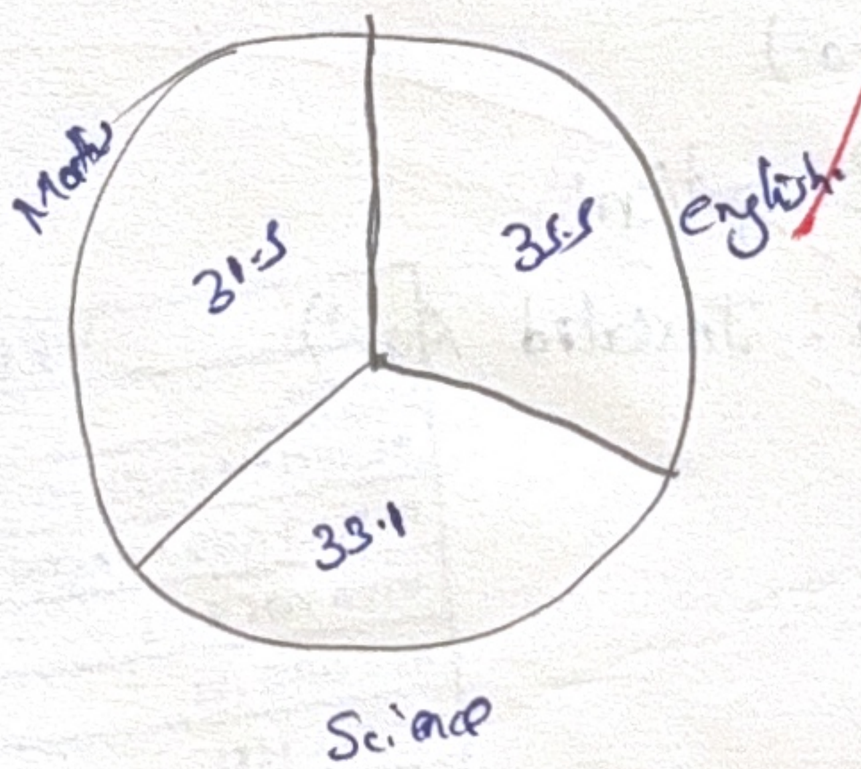
popularity of programming Languages

Output :-





24/8/22

Task 10: Use Matplotlib module for plotting in python.

Aim:- To use Matplotlib module for plotting in python.

Problem 10.1

Algorithm:-

1. Define two lists for programming languages and their popularity respectively
2. Find the maximum popularity value 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 bar height as the popularity value scaled by the scaling factor.

Program:

```
important matplotlib.pyplot as plt
Languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++']
Popularity = [22.2, 17.6, 8.8, 8, 7.7, 6.7]
plt.bar(Languages, popularity, color = 'b')
plt.title ("Popularity of programming Languages")
plt.xlabel ('Programming Languages')
plt.ylabel ('Popularity')
plt.show()
```

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Problem 10.Q

Algorithm:-

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. Show the pie chart.

Program:

```
import matplotlib.pyplot as plt.
#Step 1:-
Languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++']
Popularity = [22.2, 17.6, 8.6, 8, 7.7, 6.7]
#Step 2
plt.pie(popularity, labels = Languages, autopct = "%1.f%%")
#step 3
plt.title ("Popularity of programming Languages")
plt.legend (Languages, loc = "best")
#step 4
plt.show
```

VEL TECH	
EX No.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
SIGN WITH DATE	

Result:- Thus the python program use Matplotlib module for plotting is executed and verified successful.

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