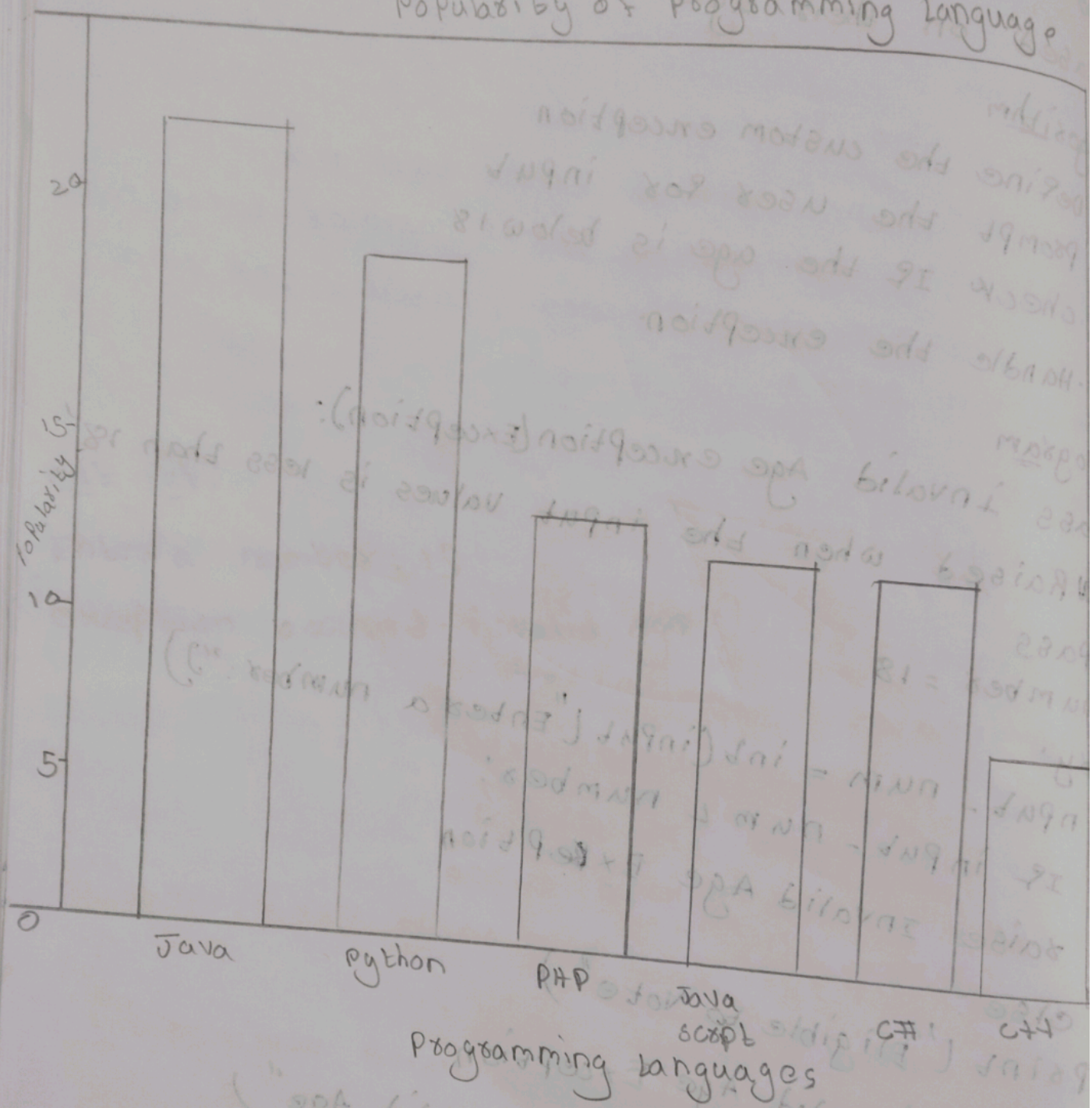
Popularity of Programming Language
Popularity %
20
10
5
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Java
Python
PHP
Java Script
C#
C++
Programming Languages

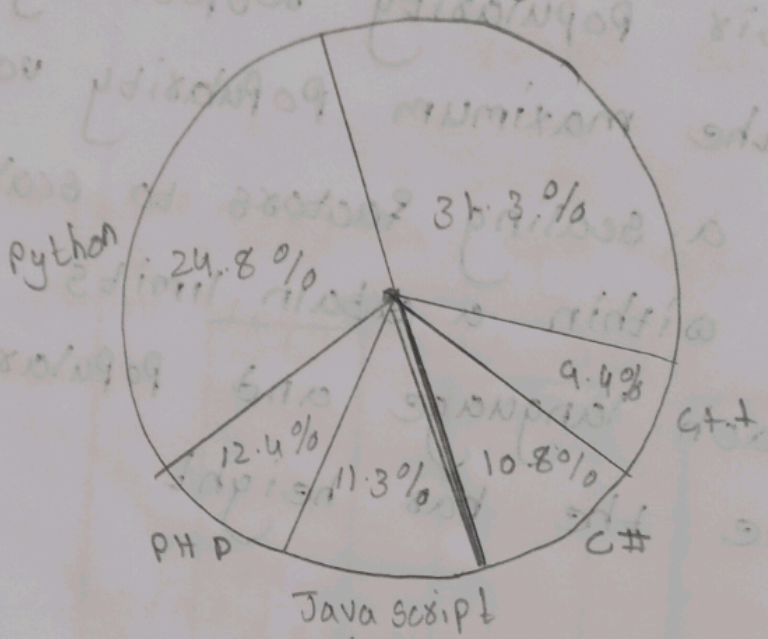
15-10-25 Task 10 use matplotlib module for plotting in python

Aim: To use matplotlib module for plotting in python

Algorithm
1. Define two lists for programming languages and their popularity respectively
2. Find the maximum popularity value in list
3. Define a scaling factors to scale the bar heights within a ~~cc~~ain limits
4. For each language and popularity pair, calculate the bar height

Program:
```
#pip install matplotlib
    import matplotlib.pyplot as plt
languages = ['Java', 'python', 'PHP', 'JavaScript',]
Popularity = [22.2, 17.6, 88, 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()
```

Popularity of programming languages



Problem 10.2 write a python programing to create a pie chart of the popularity of programming language

Algorithm

1. create a list of programming language and popularity
2. create a pie chart using 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#']
Popularity = [22, 17.6, 8.8, 8, 7.7, 6.7]

# step 2:
plt.pie(Popularity, labels = languages, autopct = '%1.1f%%')

# step 3
plt.title('Popularity of programming languages')
plt.legend(languages, loc = 'best')

# step 4
plt.show()
```

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Result: Thus the python program use matplotlib module for plotting is executed