Aim: To use matplotlib model for plotting in python

10.1 - Algorithm:

1. Define a two list for program languages.
2. Find the maximum propularity value in list
3. define seating factor to scale the bar height.
4. for each language and popularity pairs, calculate the bar pair scaling factor.
5. print the chart using a loop to iterate our the program language.

program:

```
import matplotlib.pylot as plt.
language = [Java': 'python; 'PHP'; Javascript'; etd].
popularity = (22.2, 17.6, 8.88, 7.7, 6.7).
    plt. bar (language, popularity, eto colour =b')
    plt. title ("popularity of program language').
    plt. xlabel ('program language')
    plt. glabel ('popularity')
    plt. show ().
```

10.2 - Algorithm).

1. Create a list of program language and popularity
2. Create a pie chart using the matplotlib library.
3. Set the tittle and legend for pie chart.
4. show the pie chart.

program:

```
import matplotlib.pylot as plt.
language = ['java': 'python'; 'PHP'; Javascript', 'C++'].
popularity = (22.2, 17.6, 8.88, 7.7, 6.7)
plt. pie (popularity, labls, languages, output = 1% 6.'f7.%]
plt. tittle ('popularity of program languages').
plt. legend (language, loc = "best")
plt. shoes ().
```

line graph

```python
import matplotlib.pylot as plt
import numpy as np
k points = np.array([4, 6])
y points = np.array([0, 250])
plt.plot(x points, y points)
plt.show()
```

Result: Thus, the python program use matplotlib module for plotting is executied and verified successfully.