DATA VISUALIZATION USING PYPLOT

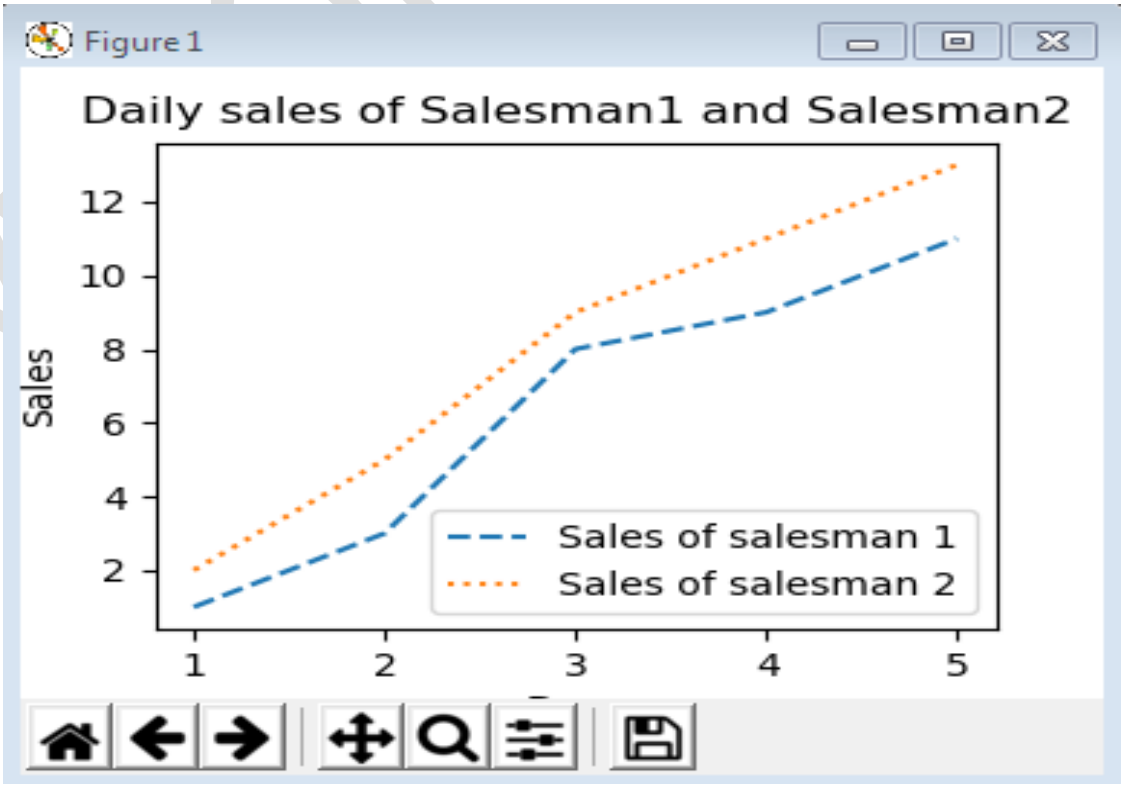
PROGRAMS

#Python program to display daily sales of two salesman with following data

sales1 = [1, 3, 8, 9, 11]

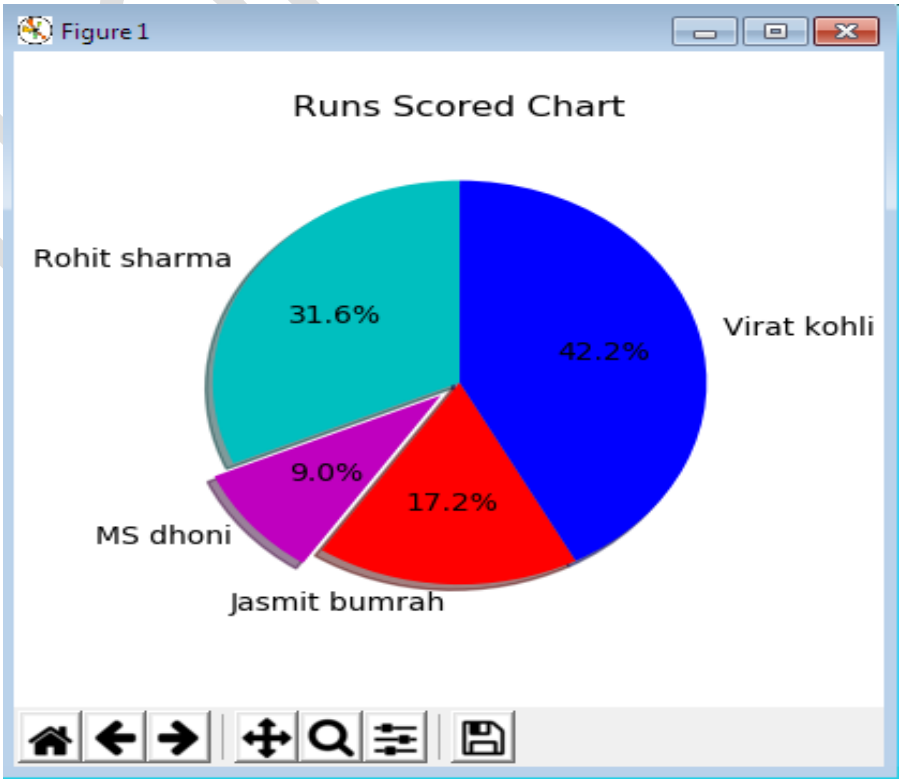
sales2 = [2, 5, 9, 11, 13]

```
import matplotlib.pyplot as plt
sales1 = [1, 3, 8, 9, 11]
sales2 = [2, 5, 9, 11, 13]
line_chart1 = plt.plot(range(1,6), sales1,'--')
line_chart2 = plt.plot(range(1,6), sales2,':')
plt.title('Daily sales of Salesman1 and Salesman2')
plt.xlabel('Days')
plt.ylabel('Sales')
plt.legend(['Sales of salesman 1', 'Sales of salesman 2'], loc=4)
plt.show()
```



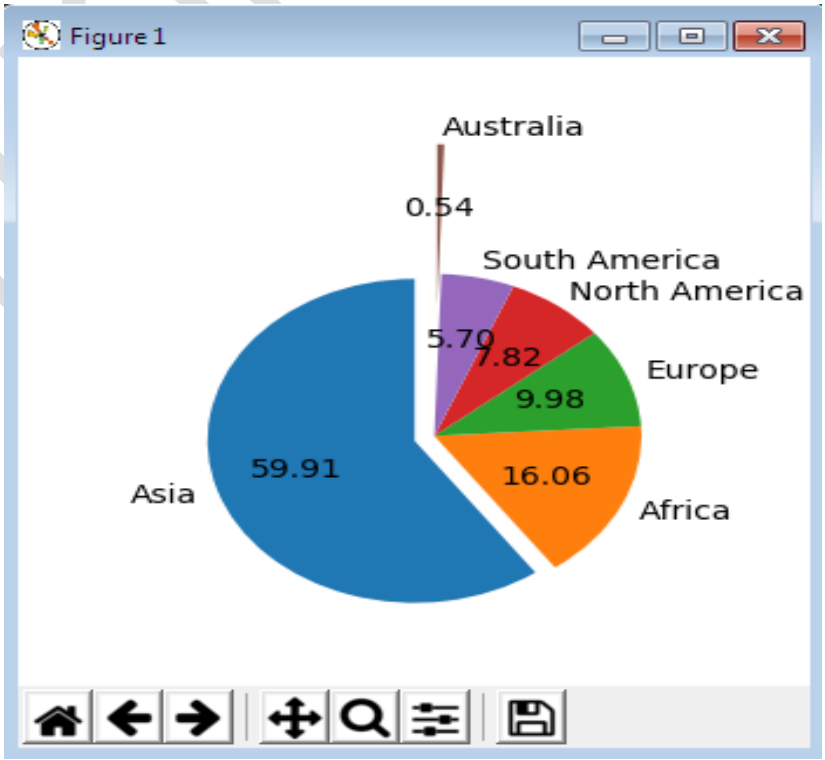
#Python program to display pie chart with following data
runs = [77,22,42,103]
players = ['Rohit sharma','MS dhoni','Jasmit bumrah','Virat kohli']

```
import matplotlib.pyplot as plt
runs = [77,22,42,103]
players = ['Rohit sharma','MS dhoni','Jasmit bumrah','Virat kohli']
cols = ['c','m','r','b']
plt.pie(runs,
        labels=players,
        colors=cols,
        startangle=90,
        shadow= True,
        explode=(0,0.1,0,0),
        autopct='%1.1f%%')
plt.title('Runs Scored Chart')
plt.show()
```



#Python program to display pie chart with following data
populationShare = [59.69, 16, 9.94, 7.79, 5.68, 0.54]
pieLabels = 'Asia', 'Africa', 'Europe', 'North America', 'South America', 'Australia'
with multiple wedges of a pie chart to explode:

```
import matplotlib.pyplot as plotter
pieLabels = 'Asia', 'Africa', 'Europe', 'North America', 'South America', 'Australia'
populationShare = [59.69, 16, 9.94, 7.79, 5.68, 0.54]
figureObject, axesObject = plotter.subplots()
explodeTuple = (0.1, 0.0, 0.0, 0.0, 0.0, 0.8)
axesObject.pie(populationShare, explode=explodeTuple,
        labels=pieLabels,
        autopct='%1.2f',
        startangle=90)
axesObject.axis('equal')
plotter.show()
```



```
#Python program to display bar chart with following data
prog_lanugages = ('Python', 'C++', 'Java', 'Perl', 'C', 'Lisp')
performance = [10,7,6,4,2,1]
import matplotlib.pyplot as plt;
import numpy as np
prog_lanugages = ('Python', 'C++', 'Java', 'Perl', 'C', 'Lisp')
y_pos = np.arange(len(prog_lanugages))
performance = [10,7,6,4,2,1]
plt.bar(y_pos, performance, align='center', alpha=0.5)
plt.xticks(y_pos, prog_lanugages)
plt.ylabel('Usage')
plt.title('Programming language usage')
plt.show()
```