What Is Python Matplotlib?

Matploitlib is a Python Library used for plotting, this python library provides and objected-oriented APIs for integrating plots into applications.

Python Matplotlib : Types of Plots

1. Line Graph 2. Bar Plot 3. Histograg 4. Scatter Plot

```
In [2]: #Python Matplotlib: Line Graph

# importing matplotlib module
from matplotlib import pyplot as plt

# x-axis values
x = [10,11,4]

# Y-axis values
y = [4, 2,18]

# Function to plot
plt.plot(x,y)
#title
plt.title("Line graph")
#y-axis Label
plt.ylabel('Y axis')
#x-axis Label
plt.xlabel('X axis')

# function to show the plot
plt.show()
```
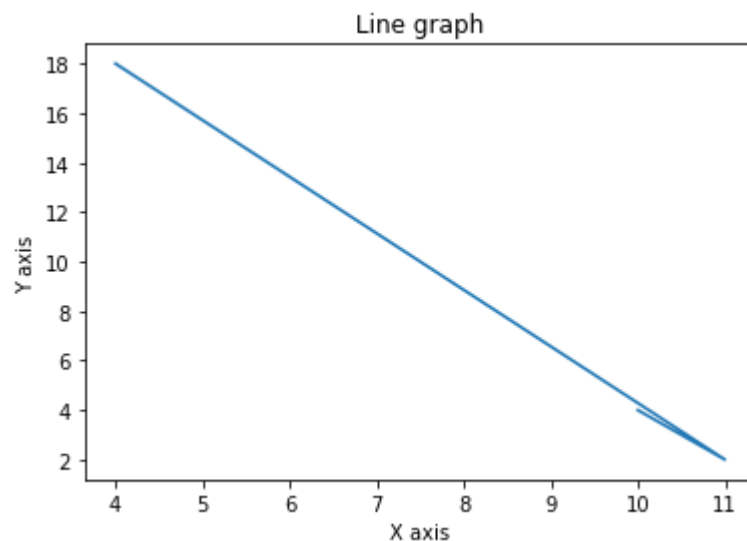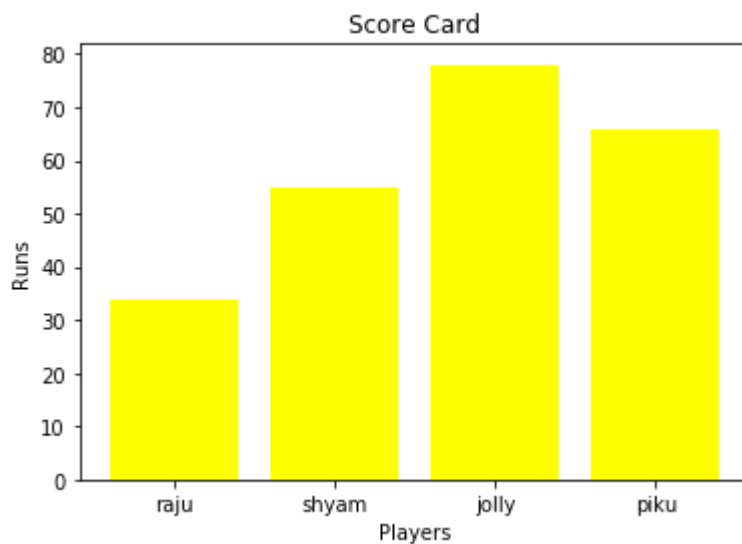
In [3]:
```python
#Python Matplotlib – BarPlot

# importing matplotlib module
from matplotlib import pyplot as plt

# x-axis values
players = ['raju','shyam','jolly','piku']

# Y-axis values
runs = [34,55,78,66]
# Function to plot the bar
plt.bar(players,runs,color = 'yellow')
#title
plt.title('Score Card')
#y-axis Label
plt.xlabel('Players')
#x-axis Label
plt.ylabel('Runs')



# function to show the plot
plt.show()
```


In [ ]:

In [8]:
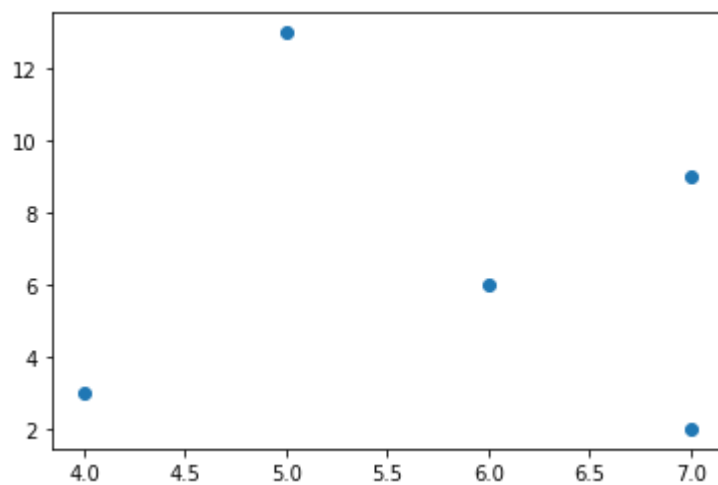```python
#Python Matplotlib : Scatter Plot

# importing matplotlib module
from matplotlib import pyplot as plt

# x-axis values
x = [5, 6, 7, 4, 7]

# Y-axis values
y = [13, 6, 9, 3, 2]

# Function to plot scatter
plt.scatter(x, y)

# function to show the plot
plt.show()
```



In [ ]: