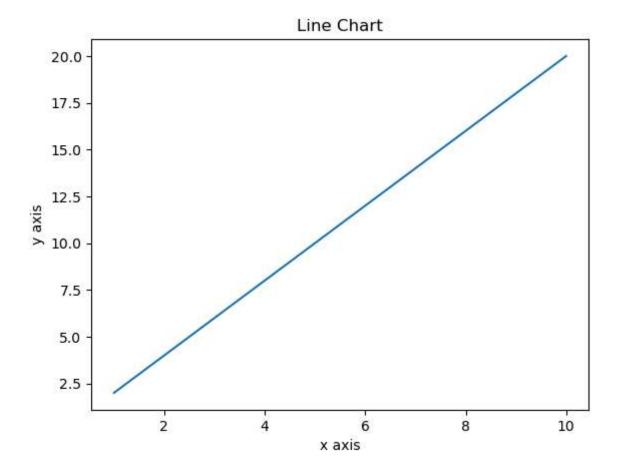
```
In [1]: #Experiment:06
In [1]: #Aim: To perform Data Visualization using Matplotlib
In [2]: #Name:Sakshi Rambhau Wankhade
        #Roll No.:72
        #Sec:A
        #Subject:ET-1
        #Date:08-09-2025
In [3]: #import Library
        import numpy as np
        from matplotlib import pyplot as plt
In [4]: x=np.arange(1,11)
In [5]: x
Out[5]: array([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])
In [6]:
        print(x)
      [12345678910]
In [7]:
        y=2*x
In [8]: y
Out[8]: array([ 2, 4, 6, 8, 10, 12, 14, 16, 18, 20])
```

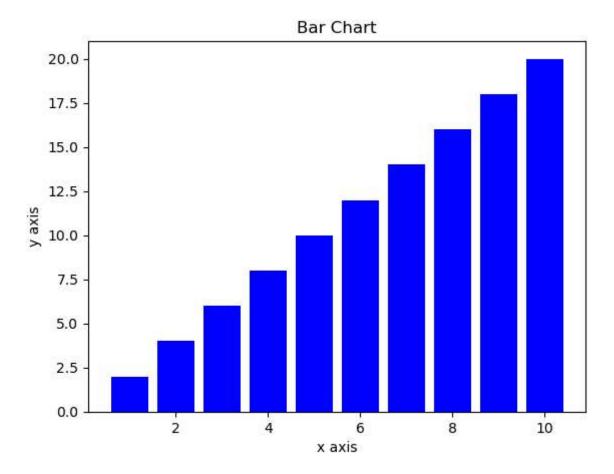
Line Chart

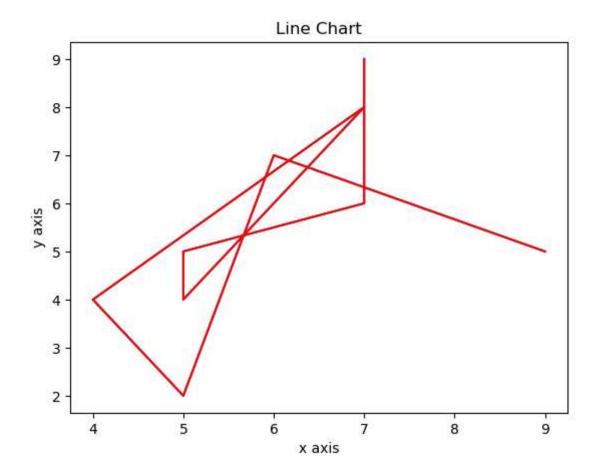
```
In [9]: plt.plot(x,y)
    plt.title("Line Chart")
    plt.xlabel("x axis")
    plt.ylabel("y axis")
    plt.show()
```



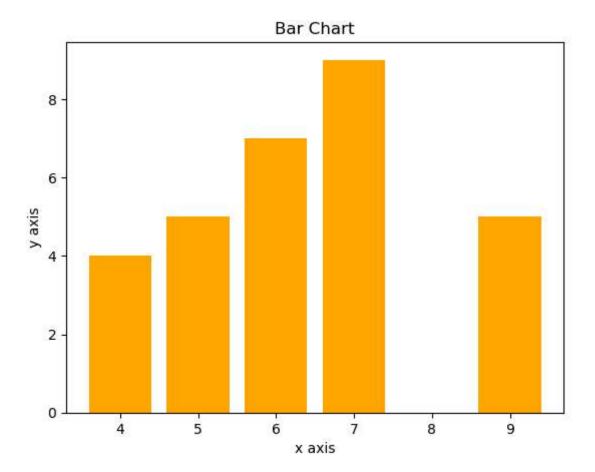
Bar Chart

```
In [10]: plt.bar(x,y)
    plt.title("Bar Chart")
    plt.xlabel("x axis")
    plt.ylabel("y axis")
    plt.bar(x,y, color="blue")
    plt.show()
```

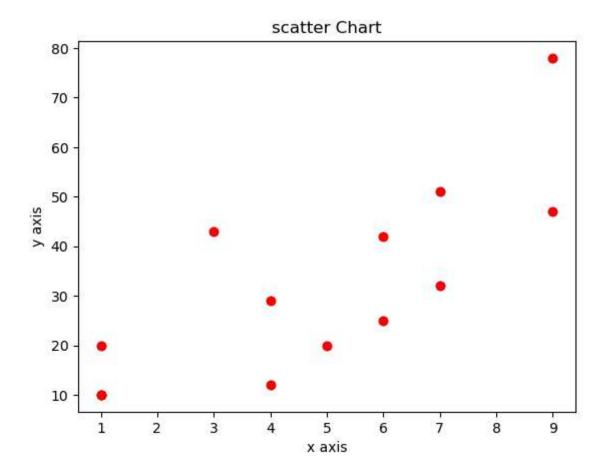


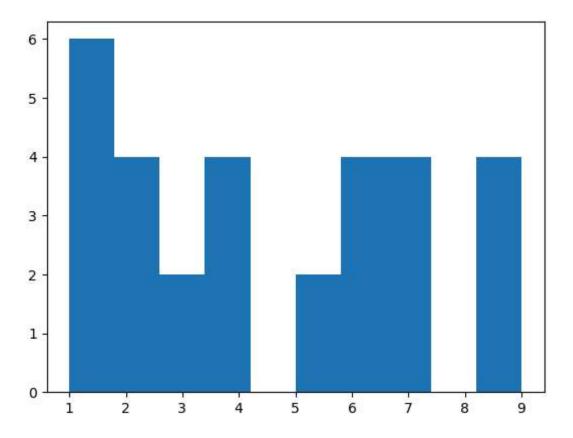


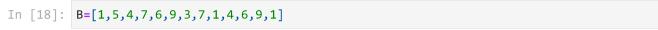
```
In [14]: plt.bar(x,y)
    plt.title("Bar Chart")
    plt.xlabel("x axis")
    plt.ylabel("y axis")
    plt.bar(x,y, color="orange")
    plt.show()
```



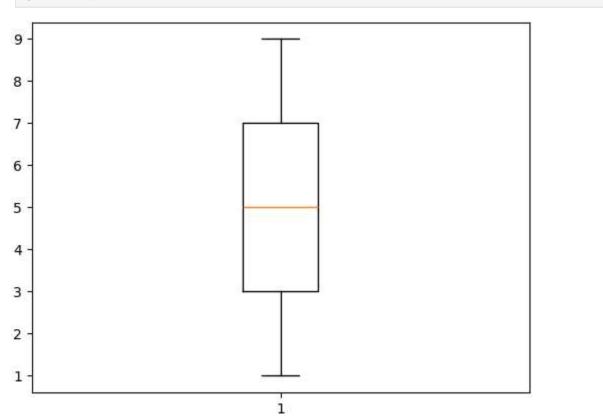
```
In [15]:    a=(1,5,4,7,6,9,3,7,1,4,6,9,1)
    b=(10,20,12,51,42,47,43,32,20,29,25,78,10)
    plt.scatter(a,b)
    plt.title("scatter Chart")
    plt.xlabel("x axis")
    plt.ylabel("y axis")
    plt.scatter(a,b, color="red")
    plt.show()
```











Pie Chart Example

