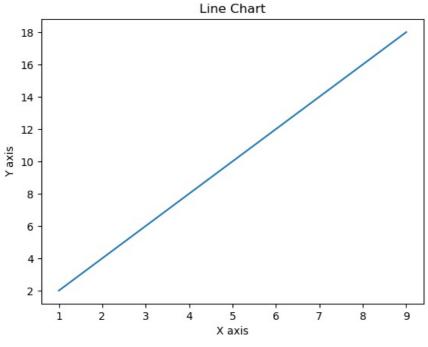
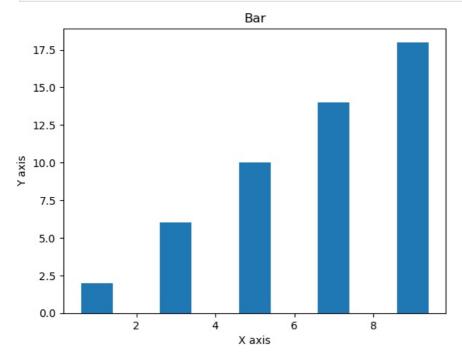
DATA VISUALISATION USING MATPLOTLIB

```
In [19]: #Aim: To Perform Data Visualisation
         #Exp no:7
         #Name: Shrutika Vijay Ambekar
         #Sec:B
         #Roll no:01
         #Sub:ET-1
         #Date:06/09/2024
In [21]: l=[10,23.4,"Shrutika",True]
In [23]: type(l)
Out[23]: list
In [25]: l[0]
Out[25]: 10
In [27]: import numpy as np
In [29]: x=np.arange(1,11)
In [31]: x
Out[31]: array([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])
In [33]: x=np.arange(1,11,2)
In [35]: x
Out[35]: array([1, 3, 5, 7, 9])
In [37]: y=x*2
In [39]: y
Out[39]: array([ 2, 6, 10, 14, 18])
In [41]: from matplotlib import pyplot as plt
In [42]: plt.plot(x,y)
         plt.title("Line Chart")
         plt.xlabel("X axis")
plt.ylabel("Y axis")
         plt.show()
```

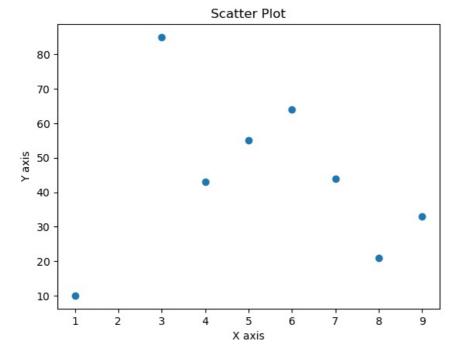


In [44]: plt.bar(x,y)

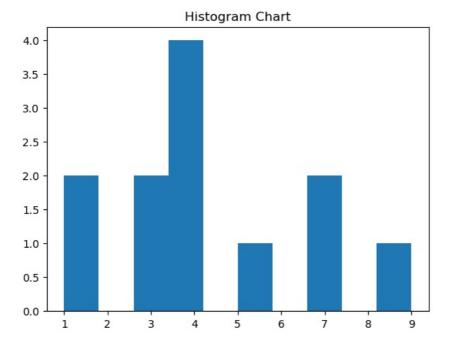
```
plt.title("Bar")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show()
```



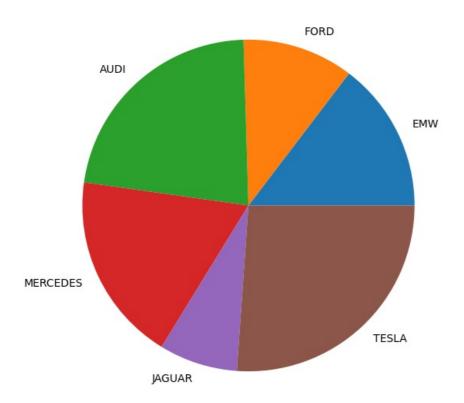
```
In [47]: a=(1,5,8,6,3,7,9,4)
b=(10,55,21,64,85,44,33,43)
plt.scatter(a,b)
plt.title("Scatter Plot")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show()
```



```
In [49]: H=[1,1,7,5,4,4,4,9,3,3,7,4]
    plt.hist(H)
    plt.title("Histogram Chart")
    plt.show()
```



```
In [51]: cars=['EMW','FORD','AUDI','MERCEDES','JAGUAR','TESLA']
In [53]: data=[23,17,35,29,12,41]
In [55]: fig=plt.figure(figsize=(10,7))
    plt.pie(data,labels=cars)
    plt.show()
```



In []:

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