

Data Visusalisation

```
In [1]: #Exp No : 5
```

```
In [2]: # Aim:To perform data visualization on given data set using Matplotlib.
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```
In [3]: # Name : Rohit Dadgal  
# Roll no : 18  
# Sec: A  
# Subject : Data Science  
#Date : 16/09/2023
```

```
In [4]: a=20  
b=30  
c=a+b  
c
```

```
Out[4]: 50
```

```
In [5]: a=(1,2,3,"Ashish",2.3,True)
```

```
In [6]: type(a)
```

```
Out[6]: tuple
```

```
In [7]: len(a)
```

```
Out[7]: 6
```

```
In [8]: a[1::1]
```

```
Out[8]: (2, 3, 'Ashish', 2.3, True)
```

```
In [9]: b=[1,2,3,"Ashish",2.3,True]
```

```
In [10]: type(b)
```

```
Out[10]: list
```

```
In [11]: len(b)
```

```
Out[11]: 6
```

```
In [12]: import numpy as np
```

```
In [13]: from matplotlib import pyplot as plt
```

```
In [14]: a[0]
```

```
Out[14]: 1
```

```
In [15]: x=np.arange(1,11)
```

```
In [16]: x
```

```
Out[16]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

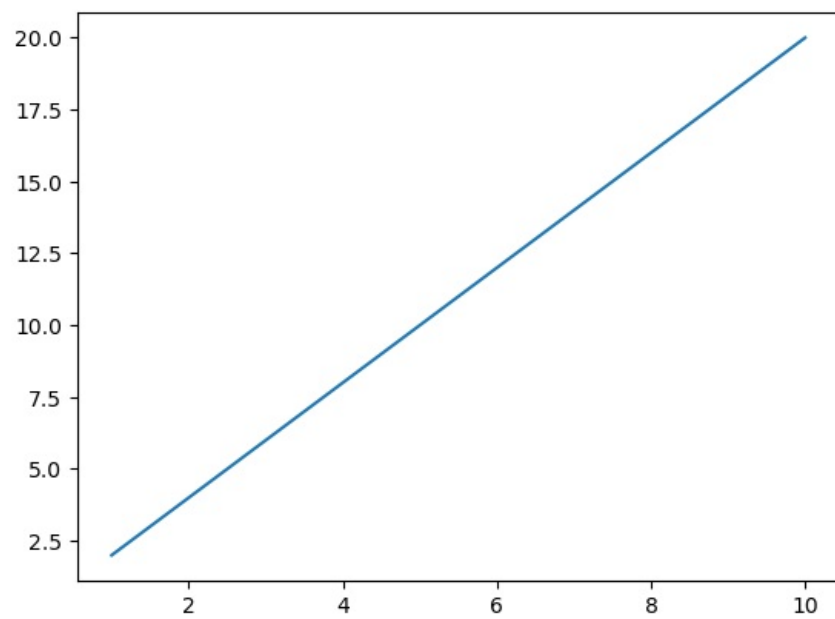
```
In [17]: y=2*x
```

```
In [18]: y
```

```
Out[18]: array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

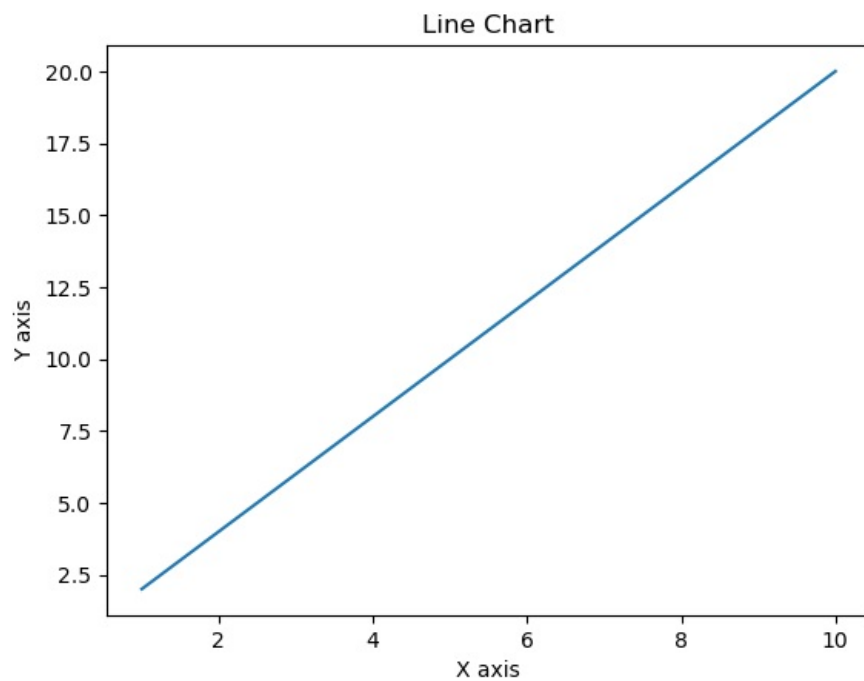
```
In [19]: plt.plot(x,y)  
plt.show
```

```
Out[19]: <function matplotlib.pyplot.show(close=None, block=None)>
```



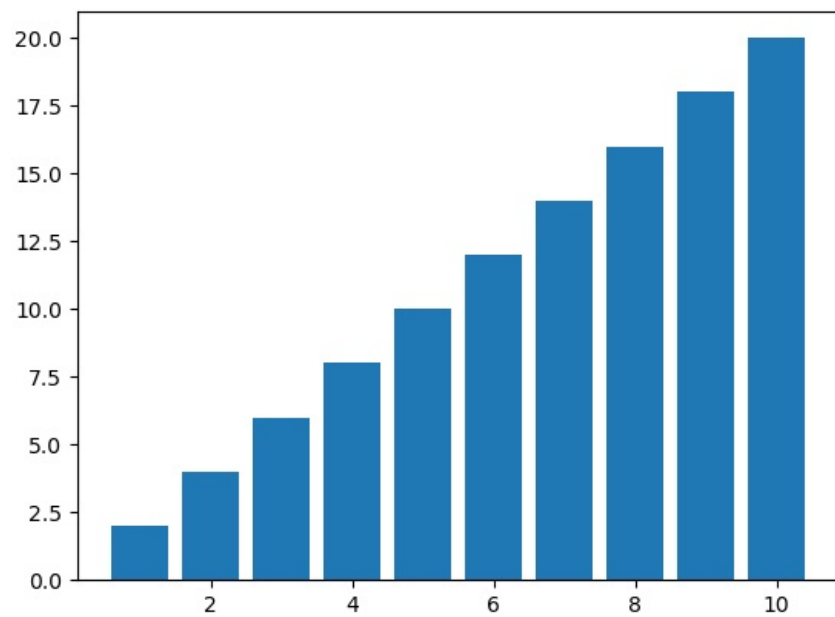
```
In [20]: plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

```
Out[20]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [21]: plt.bar(x,y)
plt.show
```

```
Out[21]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [22]: plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

```
Out[22]: <function matplotlib.pyplot.show(close=None, block=None)>
```

