

Data Visualisation

Experiment no.3 : Data Visualisation

Aim: To perform Data Visualisation

```
In [1]: #Name: Prapti Pramod UgaLe  
#Roll no.: 73  
#Sec: A  
#Subject: Data Science and Statistics (Lab 1)  
#Date: 25/07/2023
```

```
In [2]: a=20  
b=30  
c=a+b  
c
```

Out[2]: 50

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

```
In [4]: type(a)
```

Out[4]: tuple

```
In [5]: len(a)
```

Out[5]: 6

```
In [6]: a[1::1]
```

Out[6]: (2, 3, 'Ashish', 2.3, True)

```
In [7]: b=[1,2,3,"Ashish",2.3,True]
```

```
In [8]: type(b)
```

Out[8]: list

```
In [9]: len(b)
```

Out[9]: 6

```
In [10]: import numpy as np
```

```
In [11]: from matplotlib import pyplot as plt
```

```
In [12]: a[0]
```

Out[12]: 1

```
In [13]: x=np.arange(1,11)
```

```
In [14]: x
```

```
Out[14]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

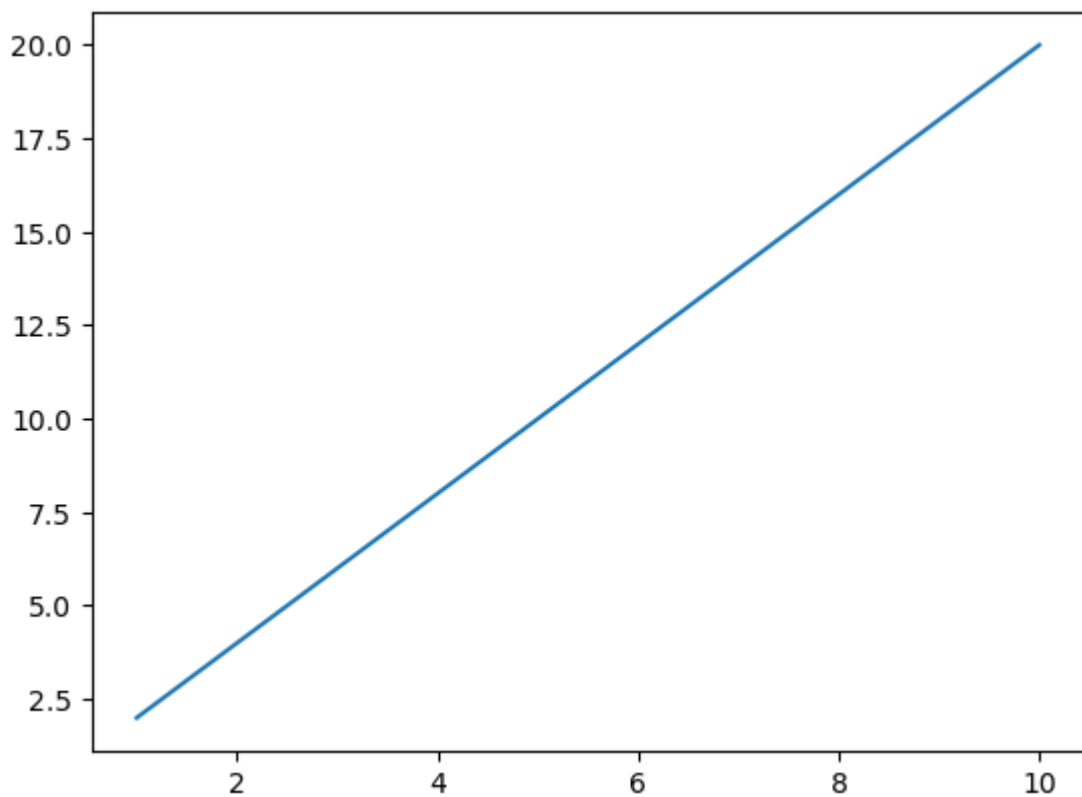
```
In [15]: y=2*x
```

```
In [16]: y
```

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

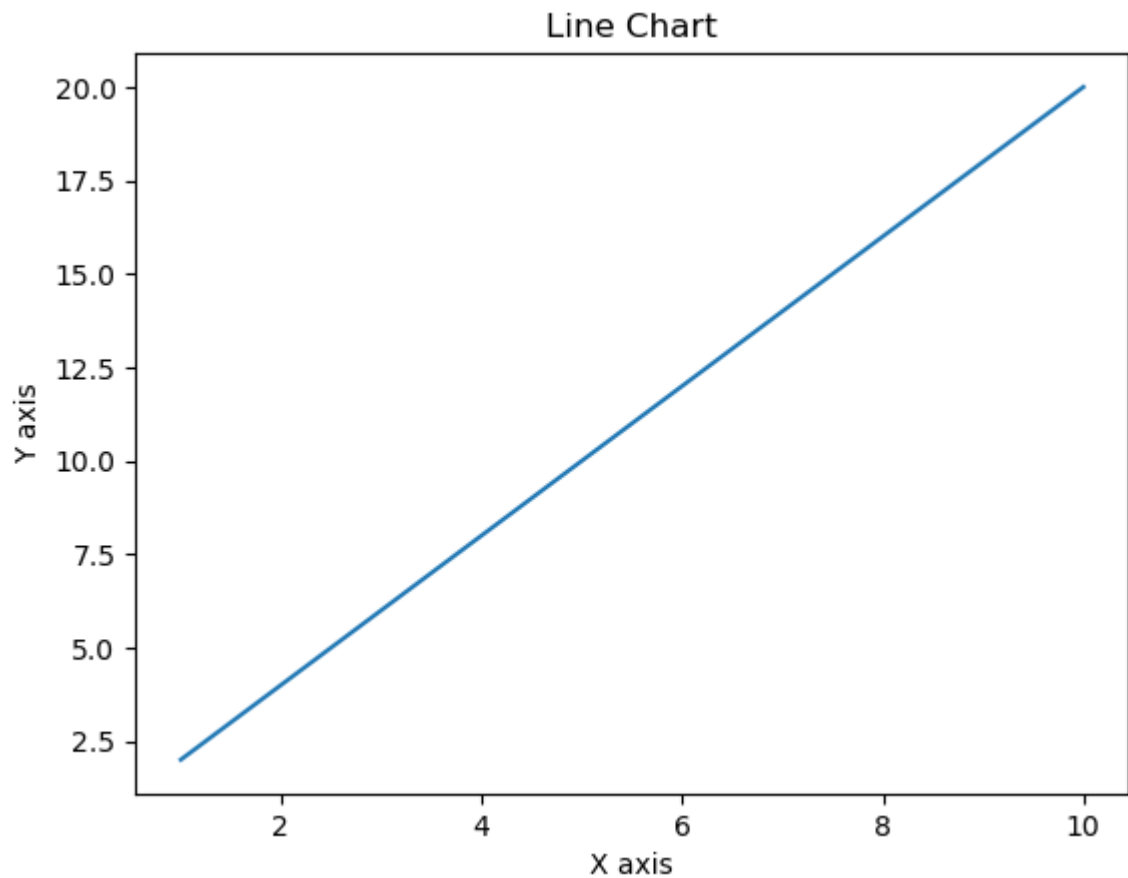
```
In [17]: plt.plot(x,y)  
plt.show
```

```
Out[17]: <function matplotlib.pyplot.show(close=None, block=None)>
```



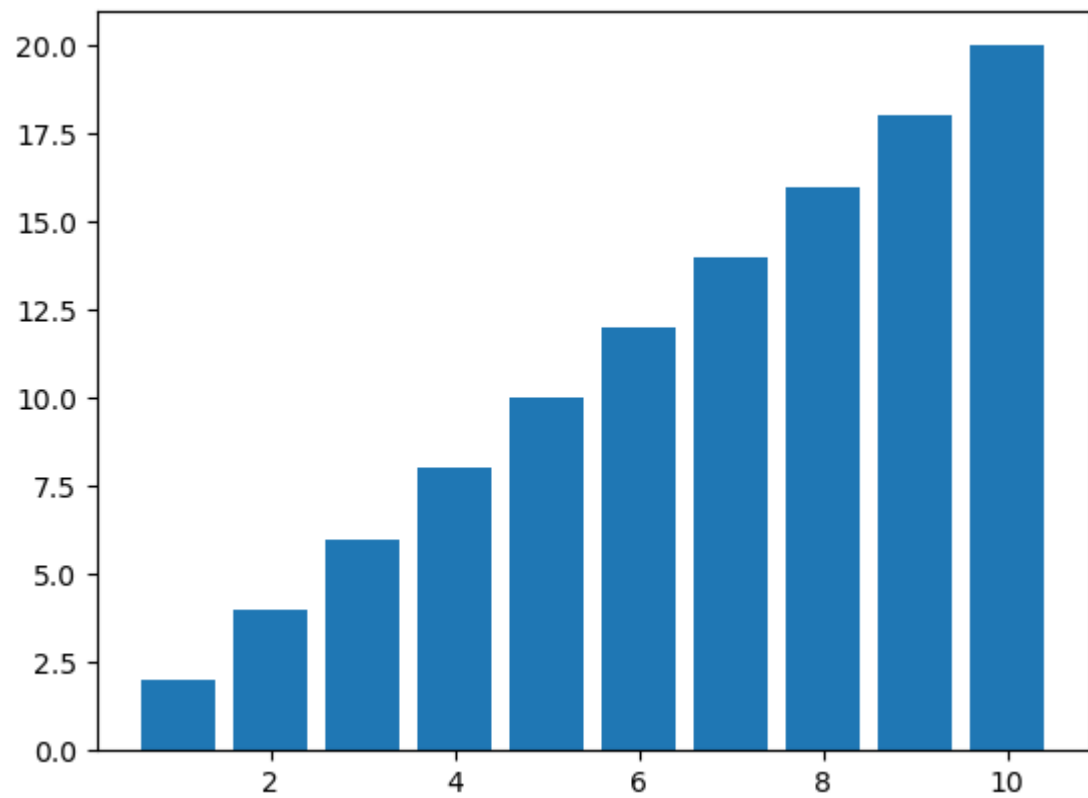
```
In [18]: plt.plot(x,y)  
  
plt.title("Line Chart")  
plt.xlabel("X axis")  
plt.ylabel("Y axis")  
plt.show
```

```
Out[18]: <function matplotlib.pyplot.show(close=None, block=None)>
```



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

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



```
In [20]: plt.bar(x,y)  
plt.title("Bar Chart")
```

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

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

