

iment-no-7-data-visualisatioaniket

October 20, 2024

1 Data Visusalisation

Experiment no.7 : Data Visualisation

Aim:To perform Data Visualisation

```
[1]: #Name:=Aniket Khatkhede  
#Roll no.: 63  
#Sec: A  
#Subject: Data Science and Statistics (Lab 1)
```

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

```
[2]: 50
```

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

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

```
[4]: tuple
```

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

```
[5]: 6
```

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

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

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

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

```
[8]: list
```

```
[9]: len(b)

[9]: 6

[10]: import numpy as np

[11]: from matplotlib import pyplot as plt

[12]: a[0]

[12]: 1

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

[14]: x

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

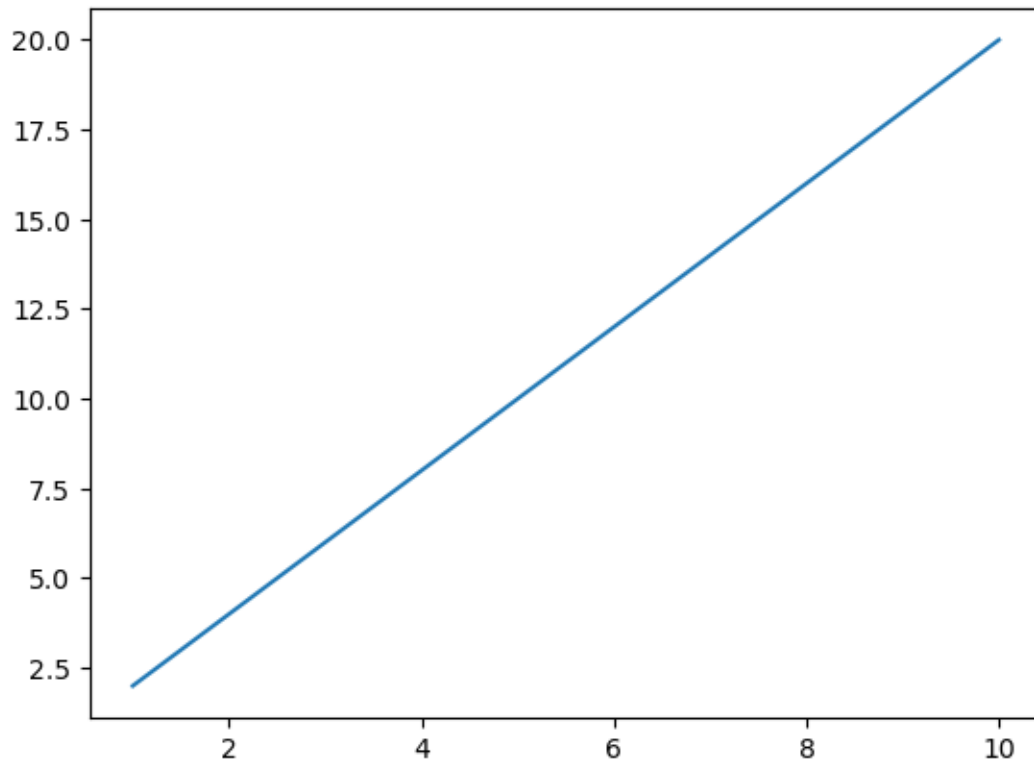
[15]: y=2*x

[16]: y

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

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

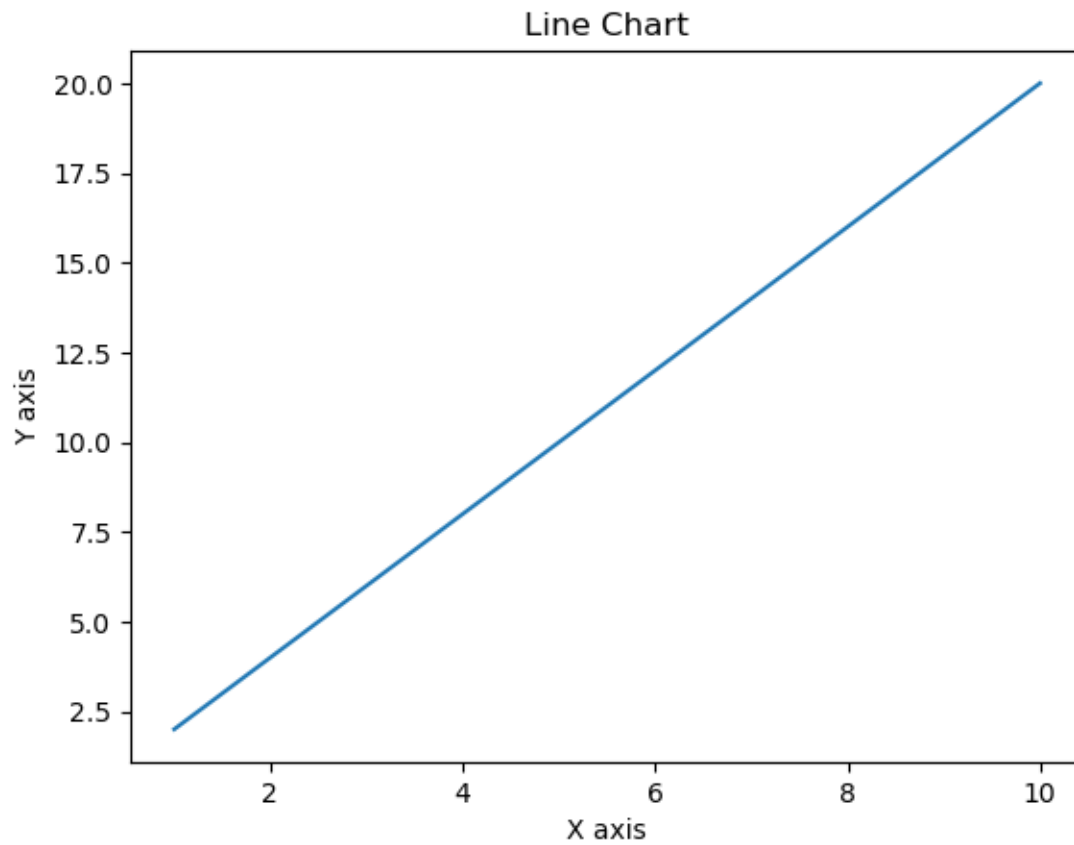
[17]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
[18]: plt.plot(x,y)

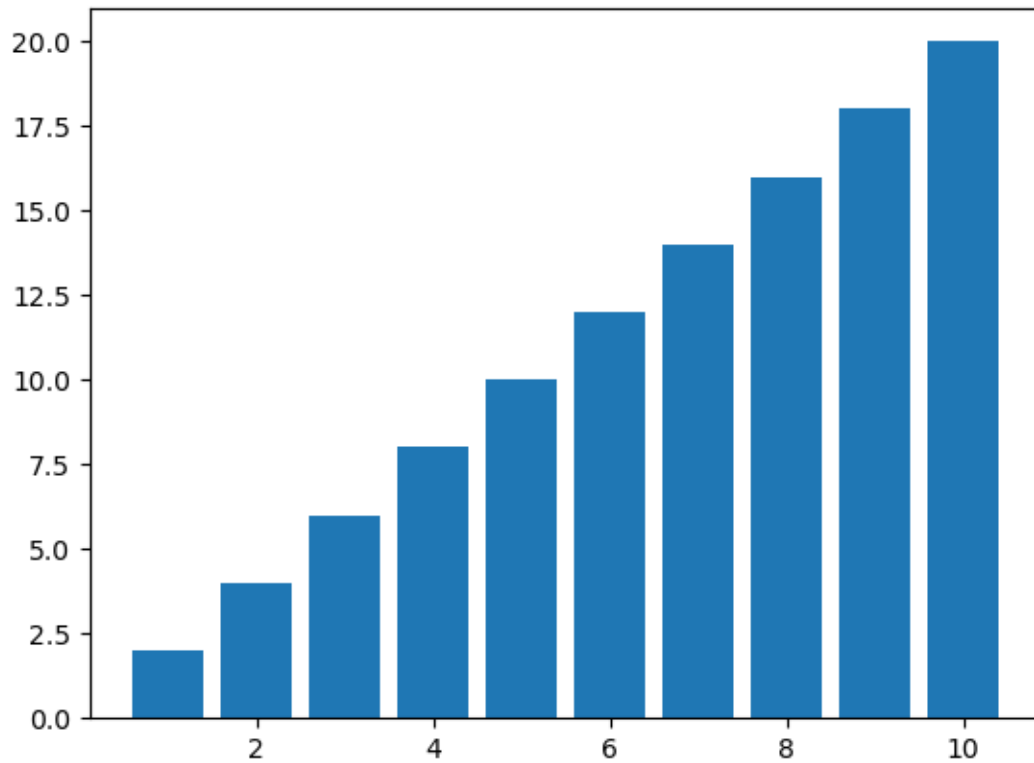
plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

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



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

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



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

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

