periment-no-3-data-visualisation

October 23, 2023

1 Data Visusalisation

Experiment no.3 : Data Visualisation

Aim:To perform Data Visualisation

```
[1]: #Name: Krutika Nemade
     #Roll no.: 55
     #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
```

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

```
[9]: 6
```

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

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

```python
[12]: a[0]
```

```
[12]: 1
```

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

```python
[14]: x
```

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

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

```python
[16]: y
```

```
[16]: array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```
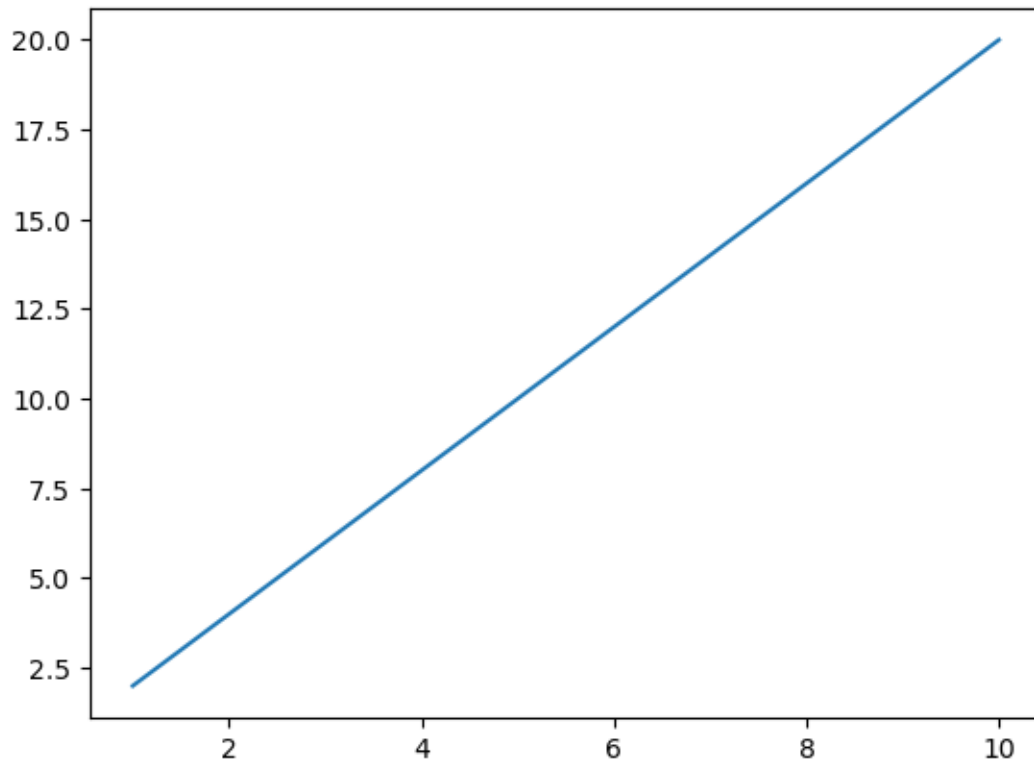
```python
[17]: plt.plot(x,y)
      plt.show
```
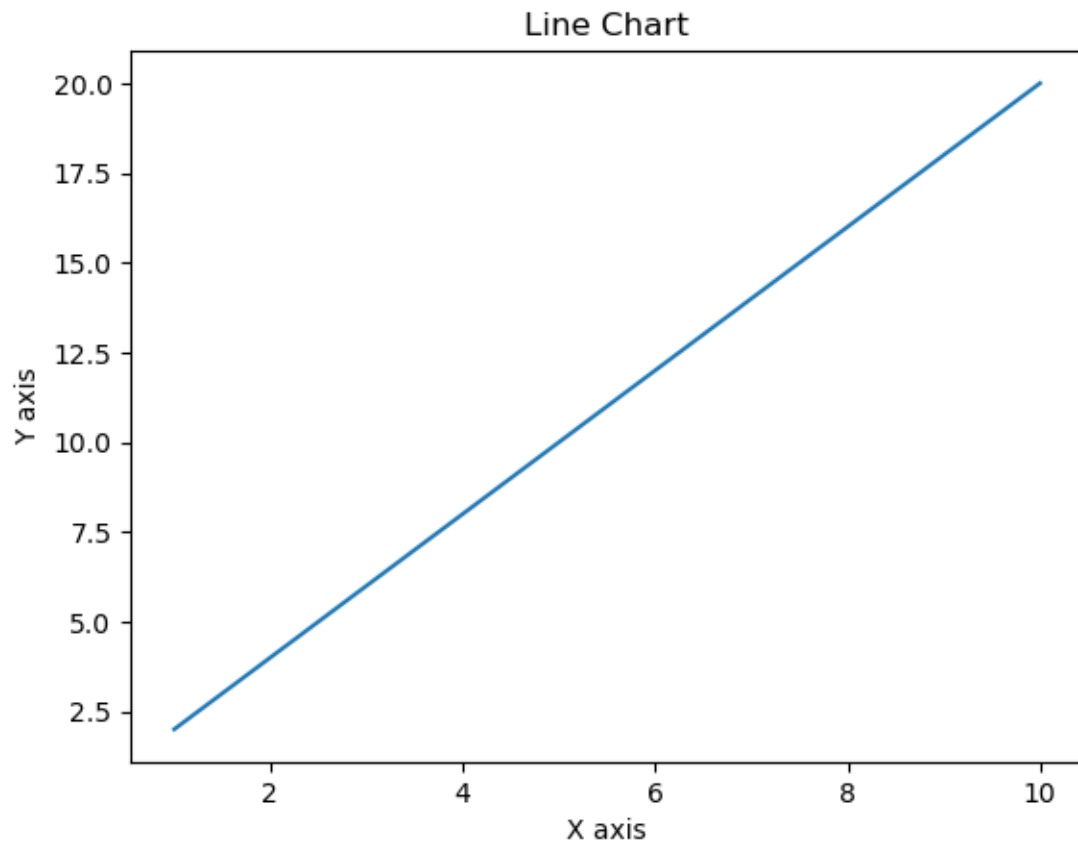
```
[17]: <function matplotlib.pyplot.show(close=None, block=None)>
```

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

      plt.title("Line Chart")
      plt.xlabel("X axis")
      plt.ylabel("Y axis")
      plt.show
```
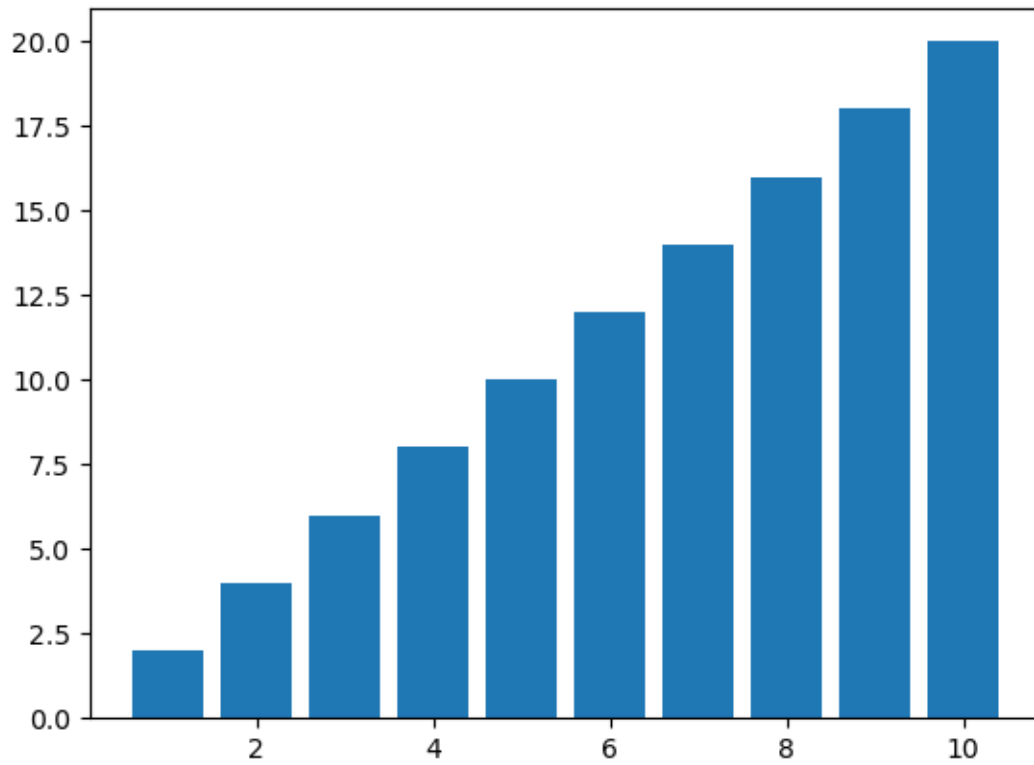
[18]: <function matplotlib.pyplot.show(close=None, block=None)>

Line Chart

```
[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)>

Bar Chart