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[ ]: # Aim:To perform data visualization on given data set using Matplotlib.
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     # Sec: C
     # Subject : ET1
```

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

```
[1]: 50
```

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

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

```
[5]: tuple
```

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

```
[7]: 6
```

```
[9]: a[1::1]
```

```
[9]: (2, 3, 'Ashish', 2.3, True)
```

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

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

```
[13]: list
```

```
[15]: import numpy as np
```

```
[38]: from matplotlib import pyplot as pl
```

```
[40]: a[0]
```

```
[40]: 1
```

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

```
[44]: x
```

```
[44]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```
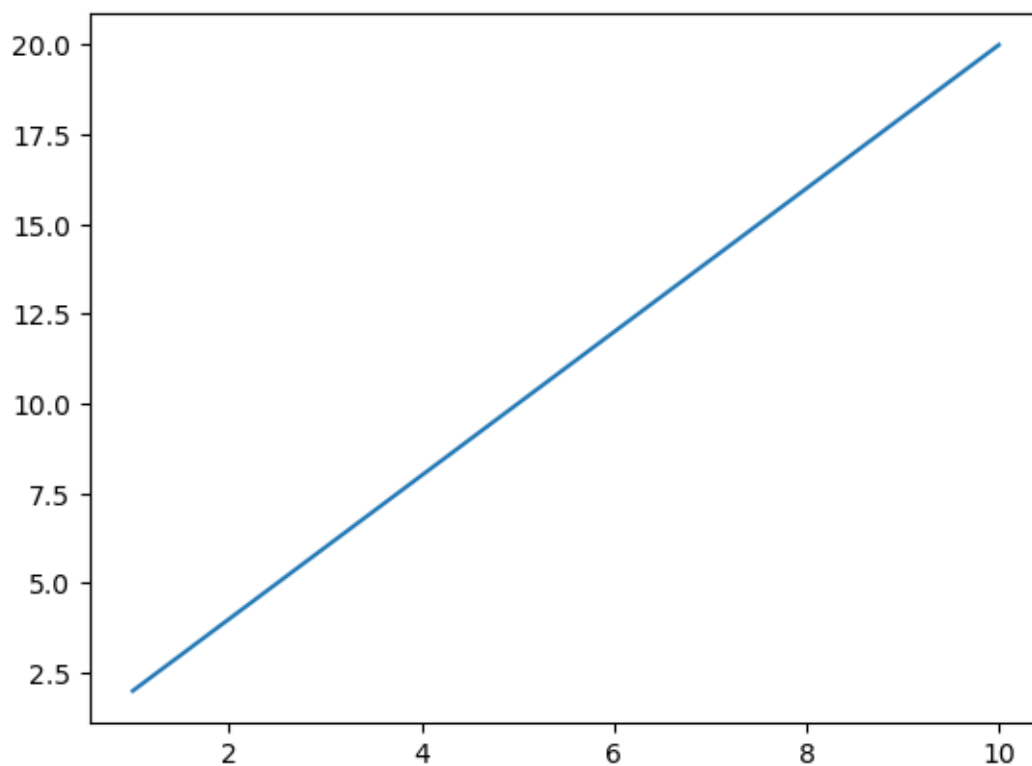
```
[46]: y=2*x
```

```
[48]: y
```

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

```python
[52]: import matplotlib.pyplot as plt

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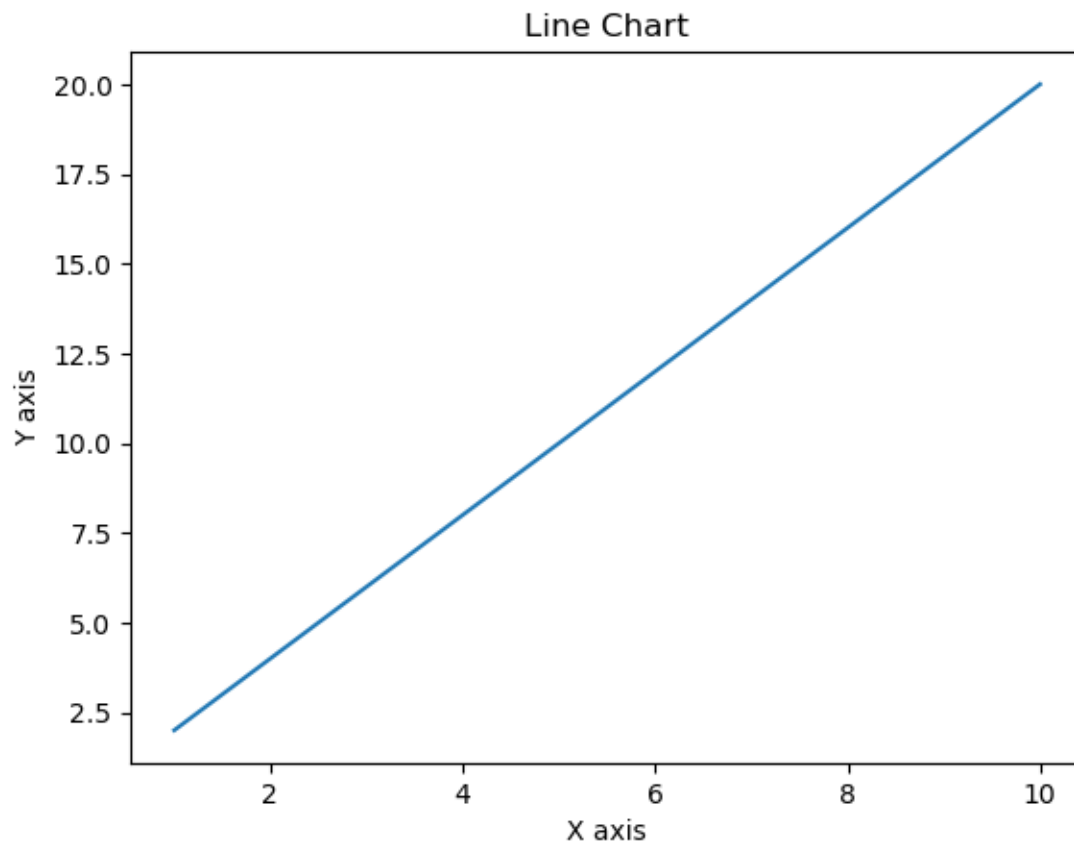
```
[52]: <function matplotlib.pyplot.show(close=None, block=None)>
```
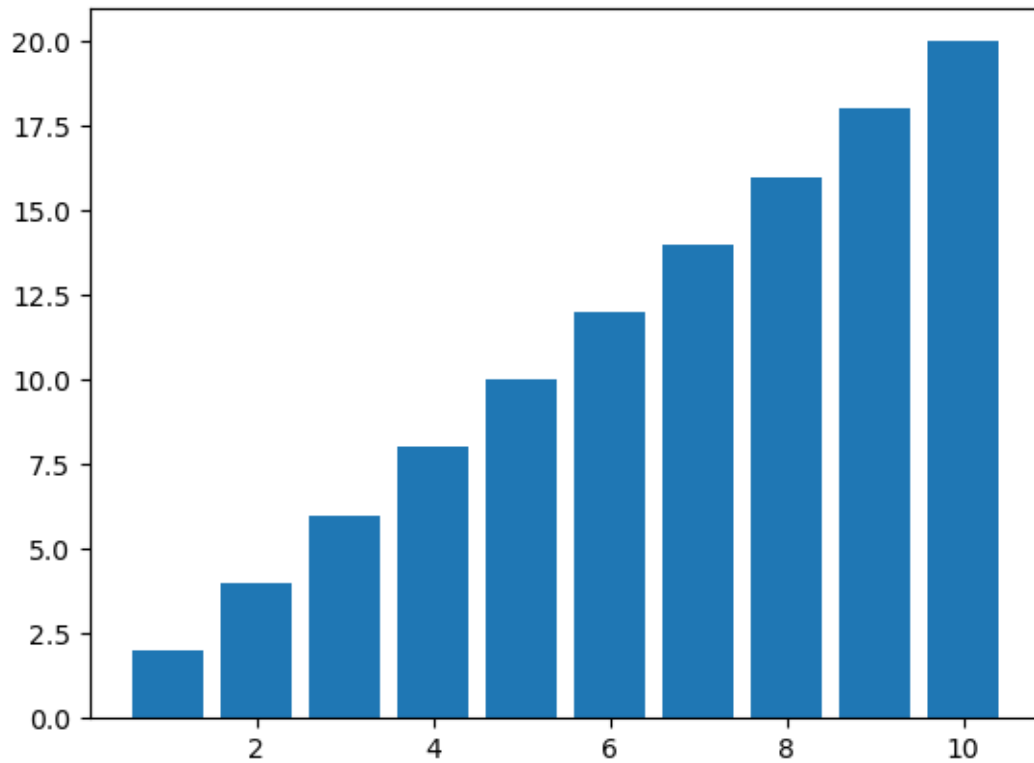
```
[54]: plt.plot(x,y)
      plt.title("Line Chart")
      plt.xlabel("X axis")
      plt.ylabel("Y axis")
      plt.show
```

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


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

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

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

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

Bar Chart