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In [ ]: # Aim:To perform data visualization on given data set using Matplotlib.
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In [ ]: # Name : Shruti Dhote  
# Roll no : 72  
# Sec: C  
# Subject : ET1  
#Date :23/08/2024
```

```
In [8]: a=20  
b=30  
c=a+b  
c
```

```
Out[8]: 50
```

```
In [9]: a=(1,2,3,"Ashish",2.3,True)
```

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

```
Out[10]: tuple
```

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

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

```
In [12]: a[1::1]
```

```
Out[12]: (2, 3, 'Ashish', 2.3, True)
```

```
In [13]: b=[1,2,3,"Ashish",2.3,True]
```

```
In [14]: type(b)
```

```
Out[14]: list
```

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

```
In [16]: from matplotlib import pyplot as pl
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```
In [17]: a[0]
```

```
Out[17]: 1
```

```
In [18]: x=np.arange(1,11)
```

```
In [19]: x
```

```
Out[19]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

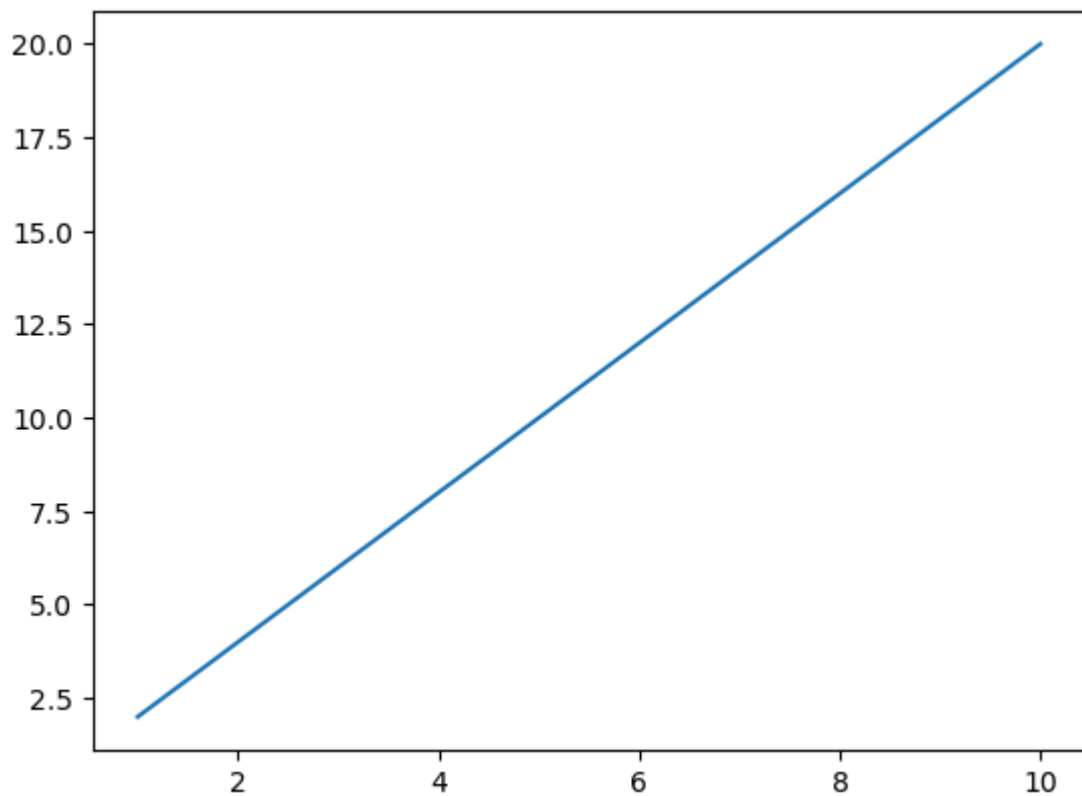
```
In [20]: y=2*x
```

```
In [21]: y
```

```
Out[21]: array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

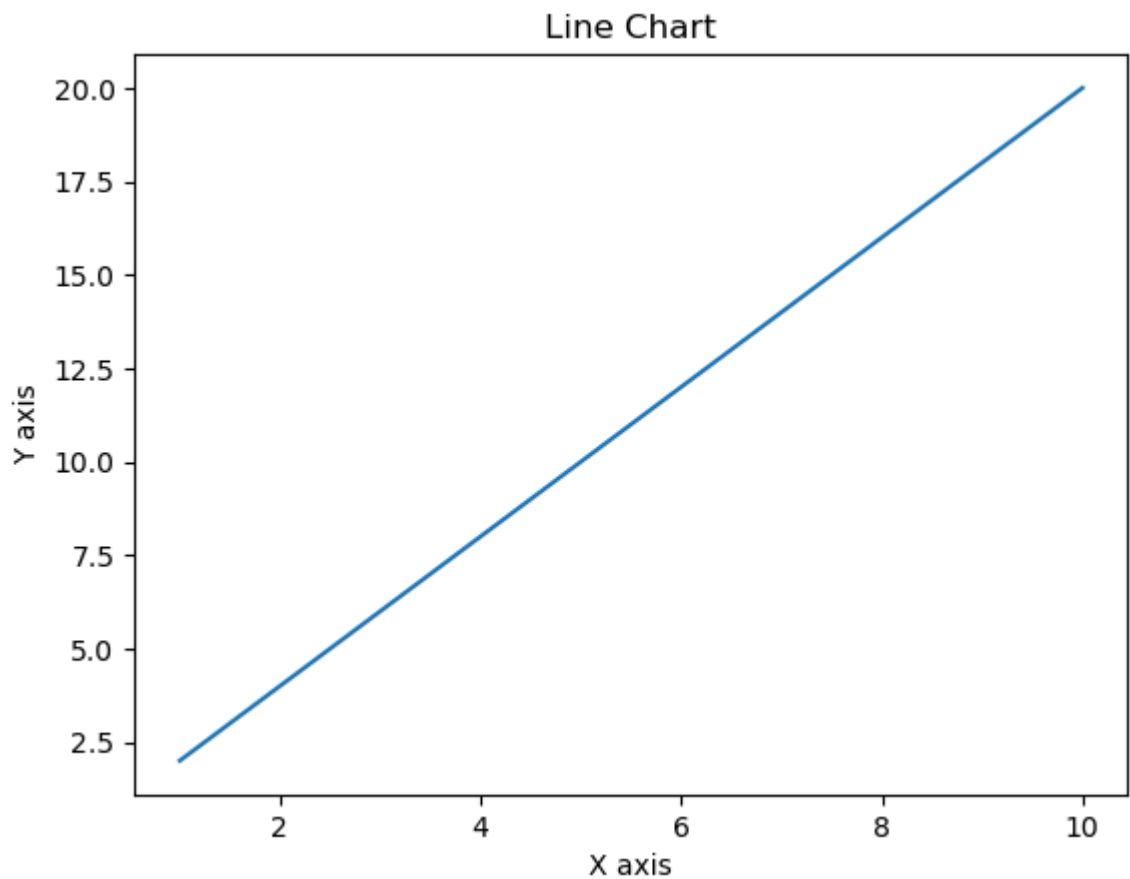
```
In [22]: plt.plot(x,y)  
plt.show
```

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



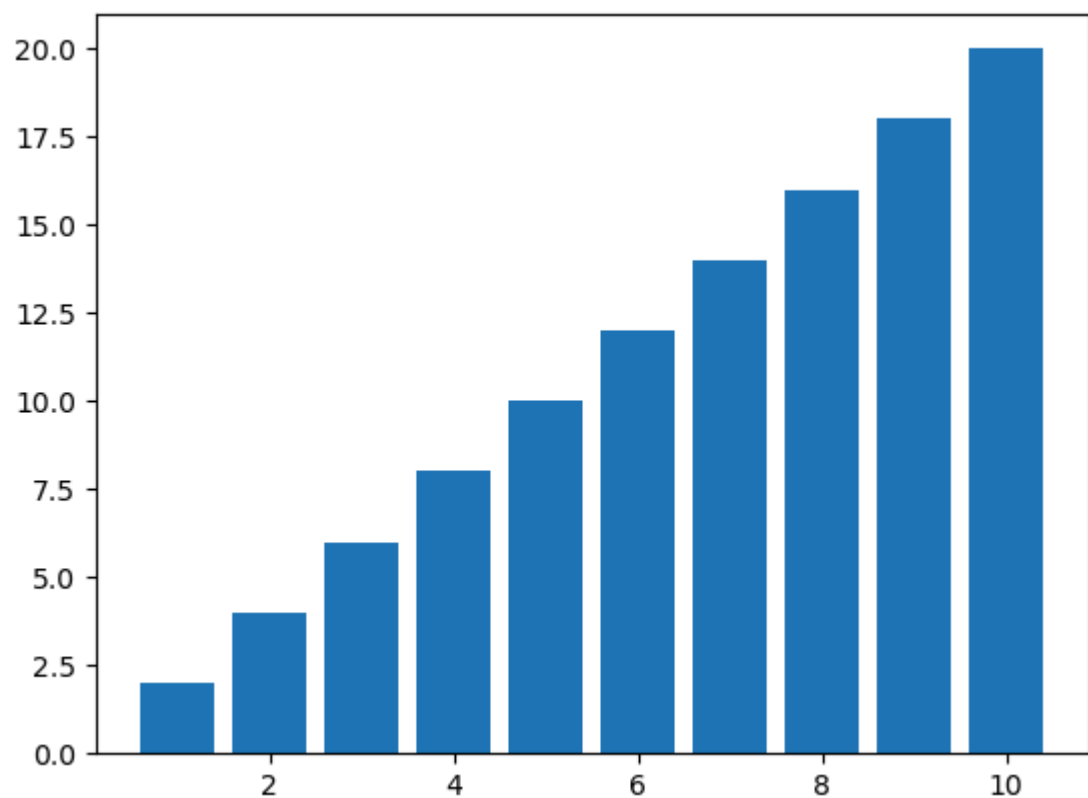
```
In [23]: plt.plot(x,y)  
plt.title("Line Chart")  
plt.xlabel("X axis")  
plt.ylabel("Y axis")  
plt.show
```

```
Out[23]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [24]: plt.bar(x,y)  
plt.show
```

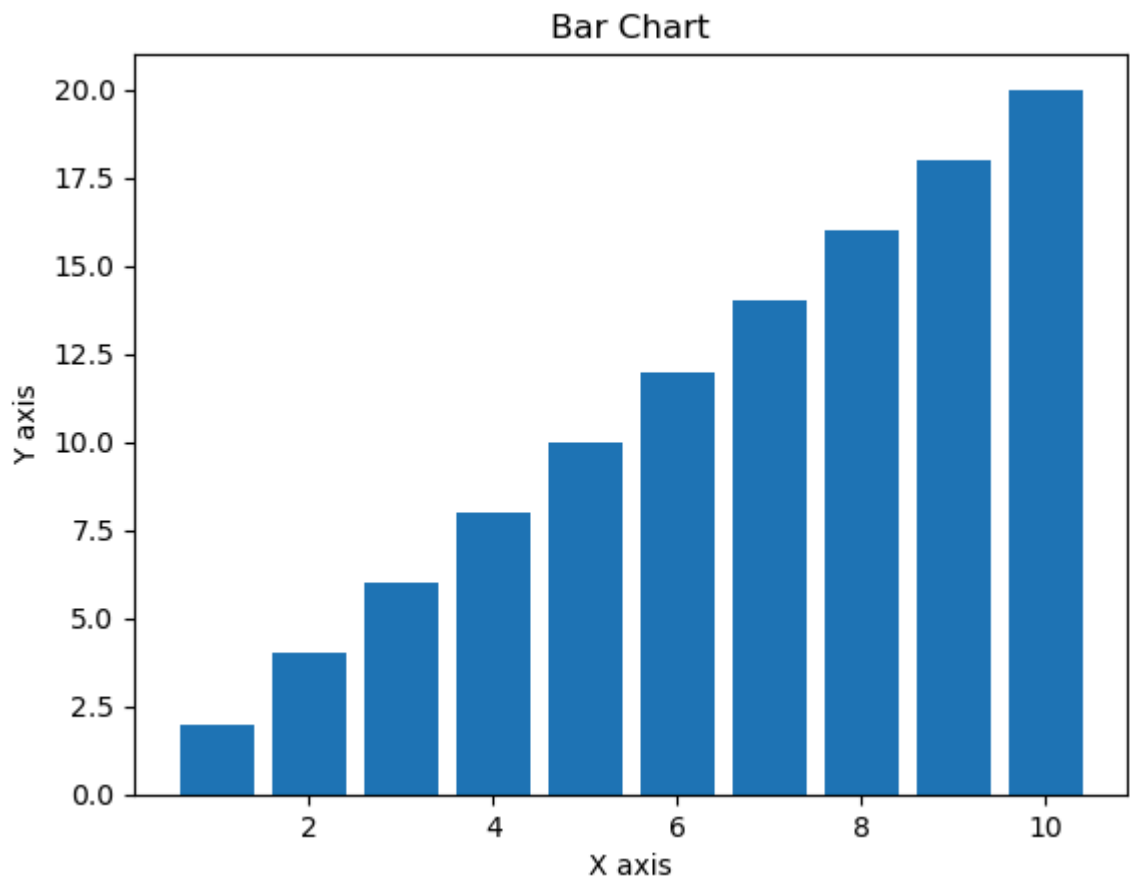
```
Out[24]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [25]: plt.bar(x,y)  
plt.title("Bar Chart")  
plt.xlabel("X axis")
```

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

Out[25]: <function matplotlib.pyplot.show(close=None, block=None)>



In []: