```
#Exp No : 7

# Aim:To perform data visualization on given data set using
Matplotlib.


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# Roll no :08
# Sec:C
# Subject : Data Science


a=20
b=30
c=a+b
c
```

```
50
```

```
a=(1,2,3,"Samruddhi",2.3,True)
```

```
type(a)
```

```
tuple
```

```
len(a)
```

```
6
```

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

```
(2, 3, 'Samruddhi', 2.3, True)
```

```
b=[1,2,3,"Samruddhi",2.3,True]
```

```
type(b)
```

```
list
```

```
len(b)
```

```
6
```

```
import numpy as np
```

```
from matplotlib import pyplot as plt
```

```
a[0]
```

```
1
```

```
x=np.arange(1,11)
```

```
x
```

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

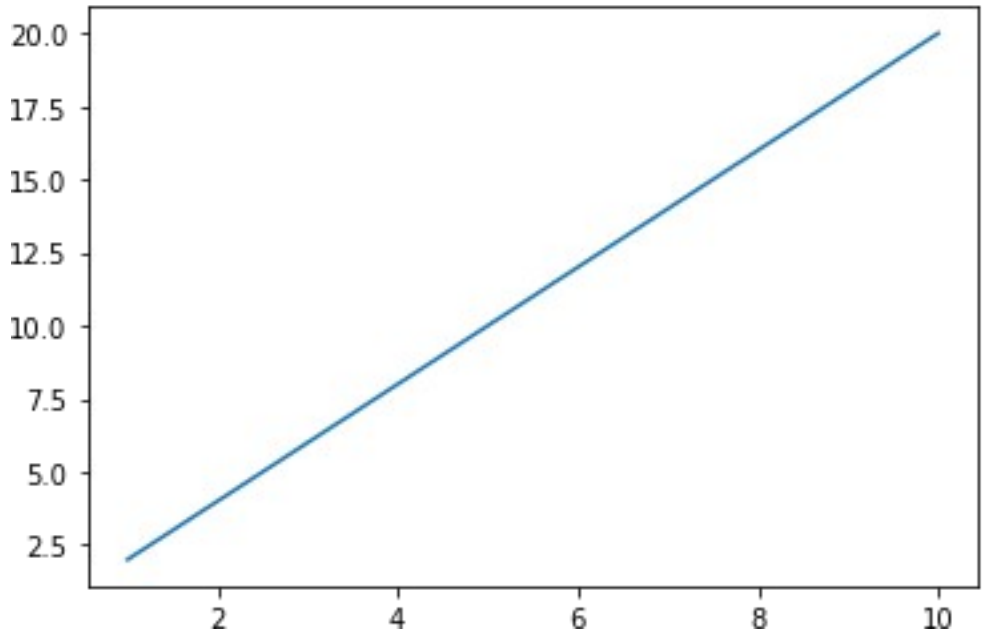
```
y=2*x
```

```
y
```

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

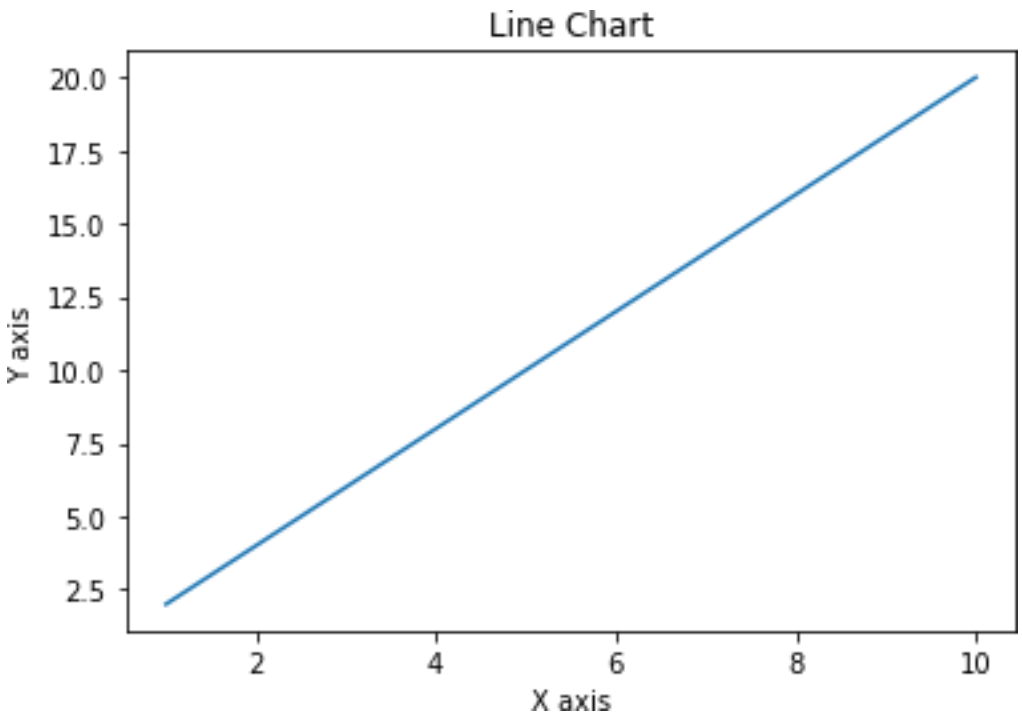
```
plt.plot(x,y)
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



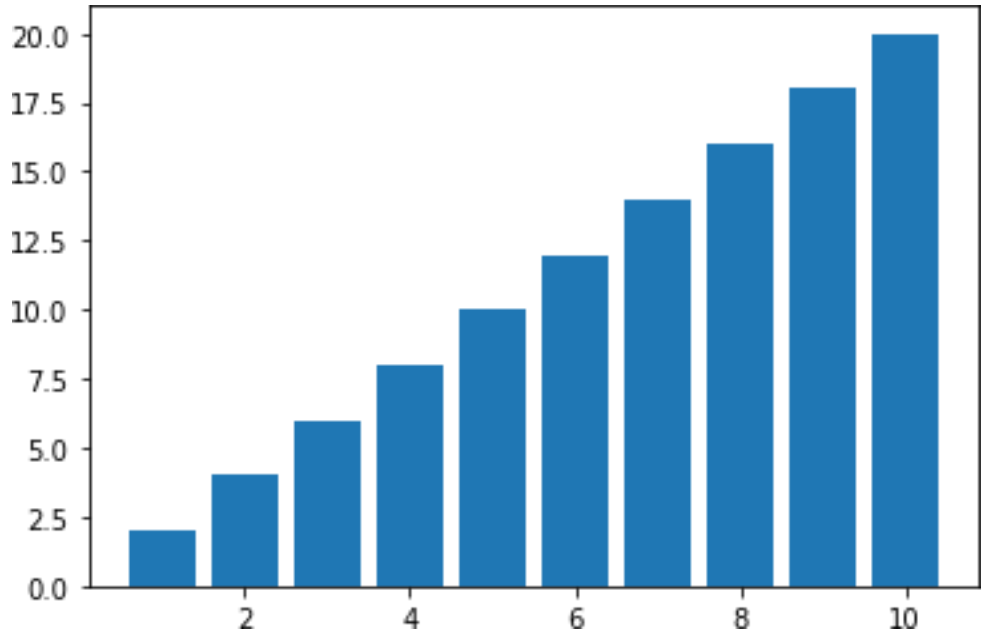

```
plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



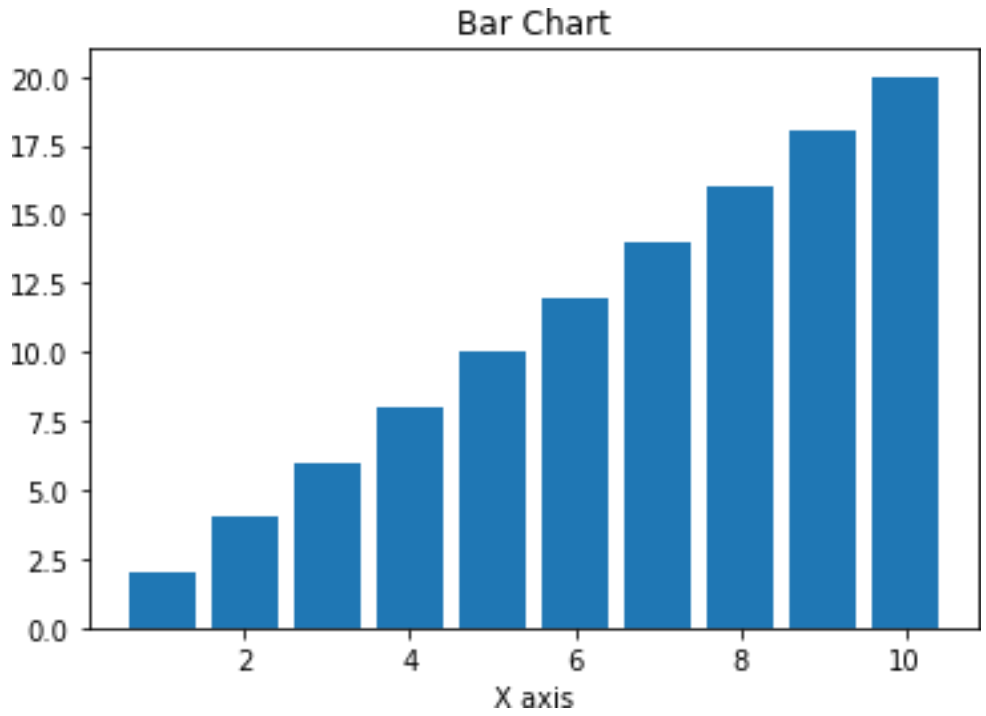

```
plt.bar(x,y)
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



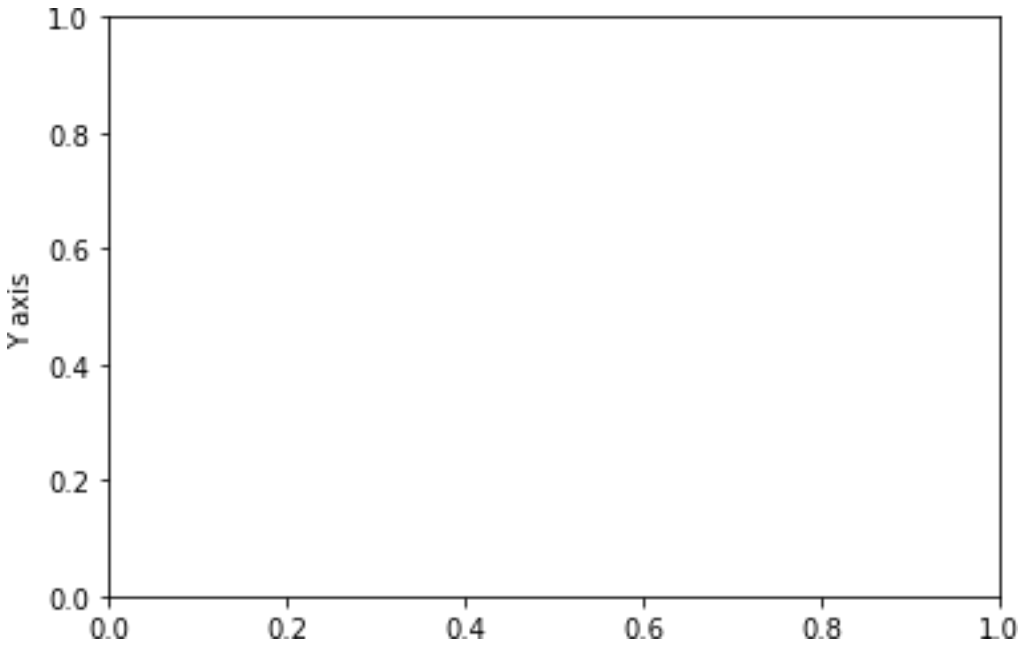
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
```

```
Text(0.5, 0, 'X axis')
```




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

```
<function matplotlib.pyplot.show(close=None, block=None)>
```


1.0
0.8
0.6
0.4
0.2
0.0
Y axis
0.0
0.2
0.4
0.6
0.8
1.0