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#Exp No : 7
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# Aim:To perform data visualization on given data set using  
Matplotlib.
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# Name : Samruddhi M. Umap
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# Roll no : 67
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# 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
```

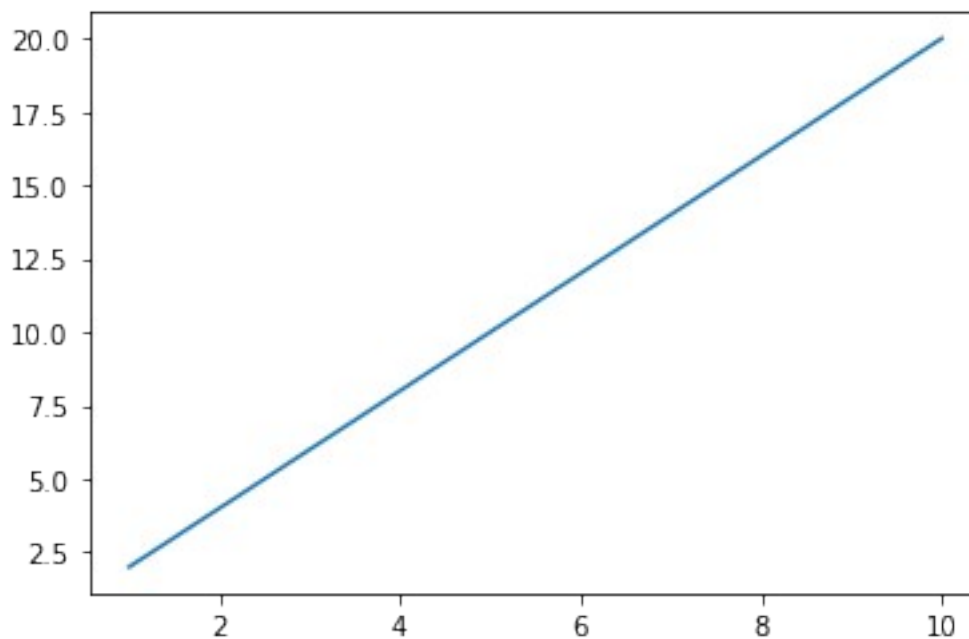
```
y
```

```
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)
```

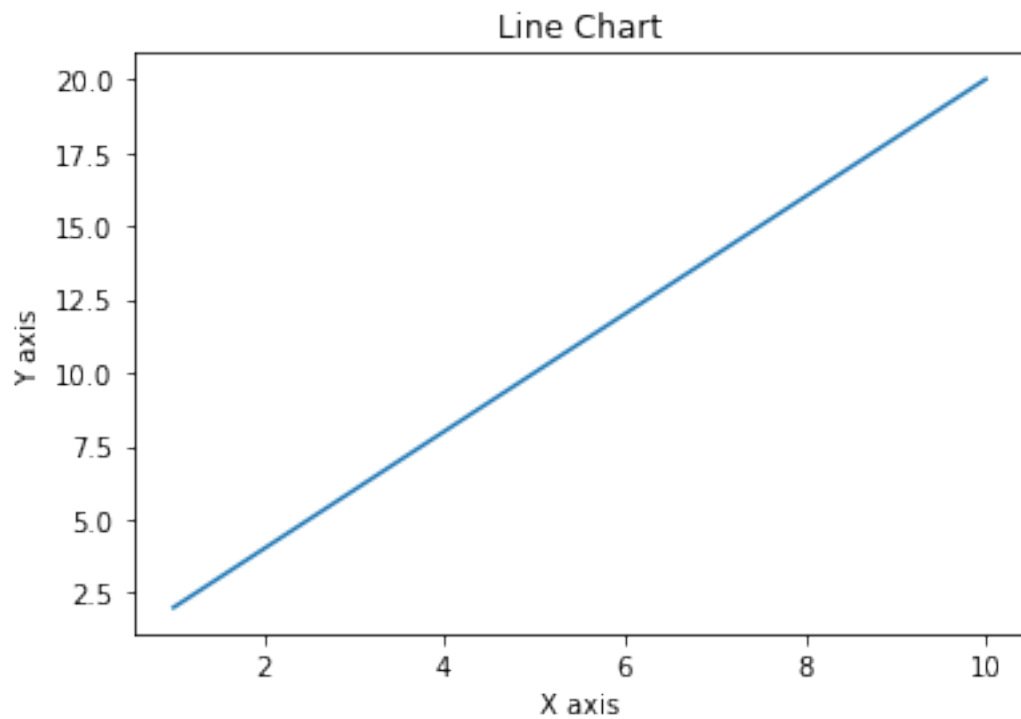
```
plt.title("Line Chart")
```

```
plt.xlabel("X axis")
```

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

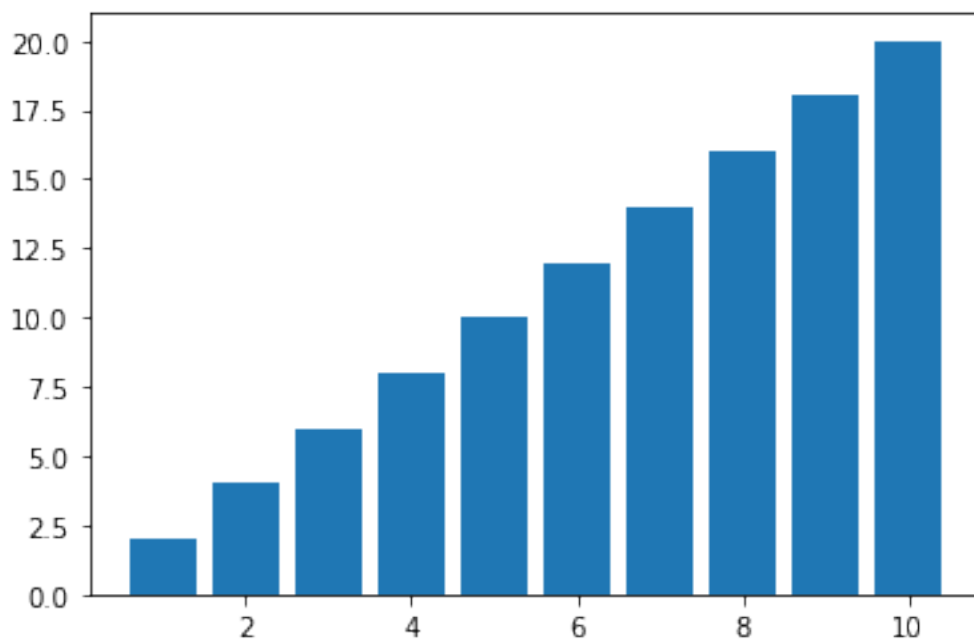
```
plt.show
```

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



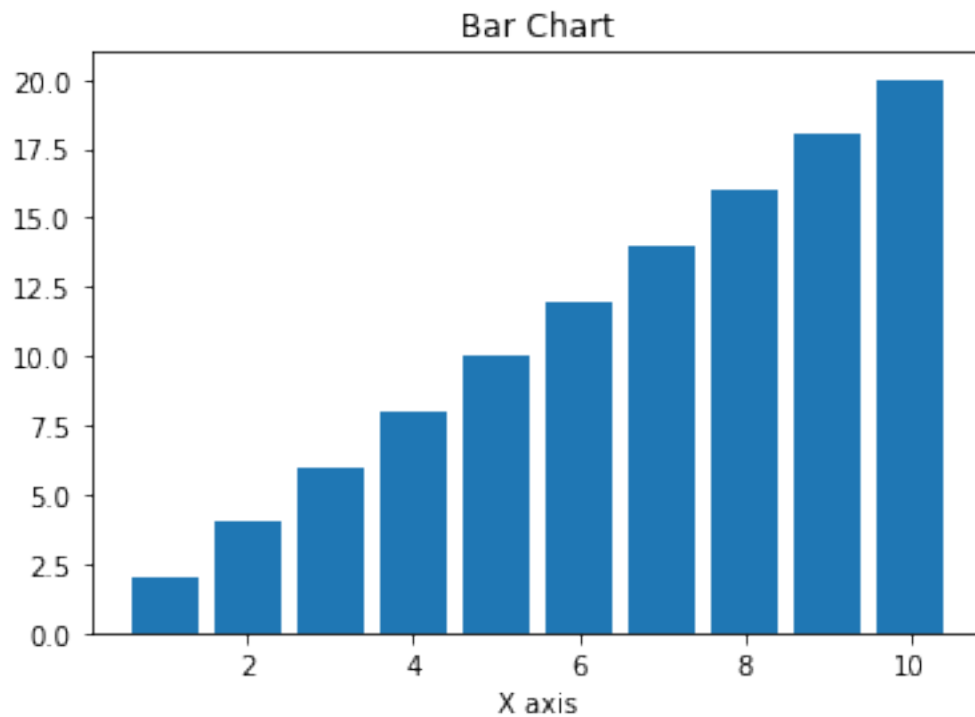
```
plt.bar(x,y)  
plt.show
```

```
<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)>
```

