

```
In [1]: #Experiment_No:-5
```

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In [2]: #Aim:-To perform data visualization on given data set using Matplotlib
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In [ ]: #Name : Achal Subhash Kharwade  
#Roll no : 36  
#sec : B  
#Date : 09-10-2023
```

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

```
In [9]: c=a+b
```

```
In [10]: c
```

```
Out[10]: 50
```

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

```
In [2]: type(a)
```

```
Out[2]: tuple
```

```
In [3]: len(a)
```

```
Out[3]: 6
```

```
In [4]: a[1::1]
```

```
Out[4]: (2, 3, 'Achal', 2.3, True)
```

```
In [5]: b=[1,2,3,"Achal",2.3,True]
```

```
In [6]: type(b)
```

```
Out[6]: list
```

```
In [7]: len(b)
```

```
Out[7]: 6
```

```
In [8]: import numpy as np
```

```
In [9]: from matplotlib import pyplot as plt
```

```
In [10]: a[0]
```

```
Out[10]: 1
```

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

In [12]:

```
x
```

Out[12]: array([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])

In [13]:

```
y=2*x
```

In [14]:

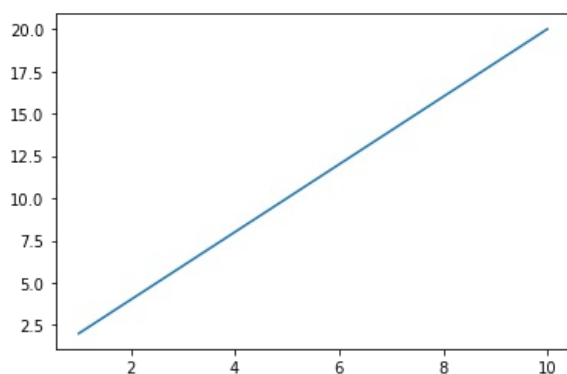
```
y
```

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

In [15]:

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

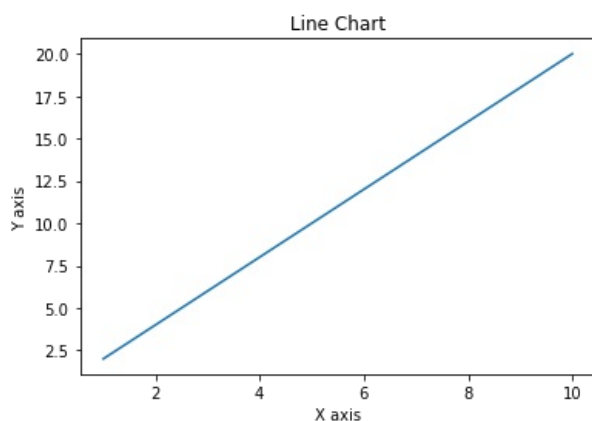
Out[15]: <function matplotlib.pyplot.show(close=None, block=None)>



In [16]:

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

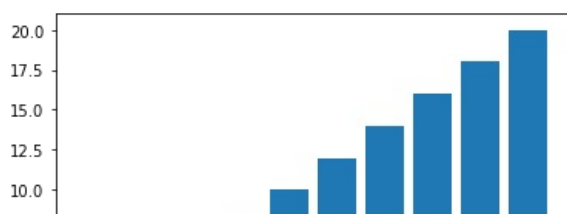
Out[16]: <function matplotlib.pyplot.show(close=None, block=None)>

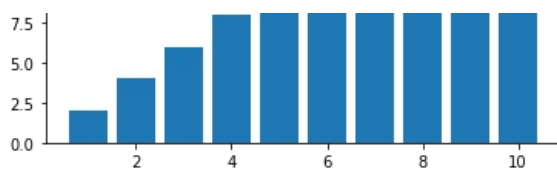


In [17]:

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

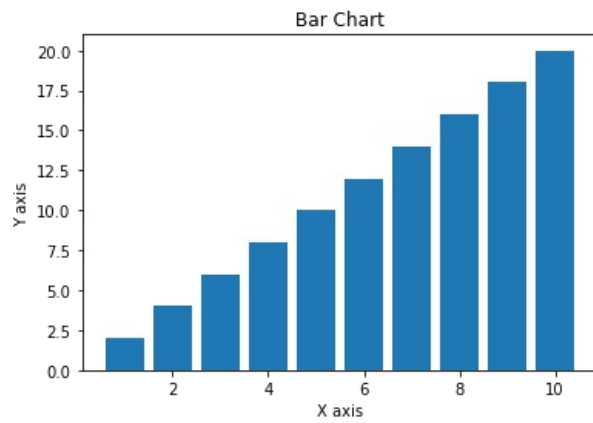
Out[17]: <function matplotlib.pyplot.show(close=None, block=None)>





```
In [18]: plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

```
Out[18]: <function matplotlib.pyplot.show(close=None, block=None)>
```



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In [ ]:
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In [ ]:
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