Data Visusalisation

Experiment no.7 : Data Visualisation

Aim:To perform Data Visualisation

In [1]:
```
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#Sec: A
#Subject: Data Science and Statistics (Lab 1)
```

In [2]:
```
a=20
b=30
c=a+b
c
```

Out[2]: 50

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

In [4]:
```
type(a)
```

Out[4]: tuple

In [5]:
```
len(a)
```

Out[5]: 6

In [6]:
```
a[1::1]
```

Out[6]: (2, 3, 'Ashish', 2.3, True)

In [7]:
```
b=[1,2,3,"Ashish",2.3,True]
```

In [8]:
```
type(b)
```

Out[8]: list

In [9]:
```
len(b)
```

Out[9]: 6

In [10]:
```
import numpy as np
```

In [11]:
```
from matplotlib import pyplot as plt
```

In [12]:
```
a[0]
```

Out[12]:
```
1
```

In [13]:
```
x=np.arange(1,11)
```

In [14]:
```
x
```

Out[14]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

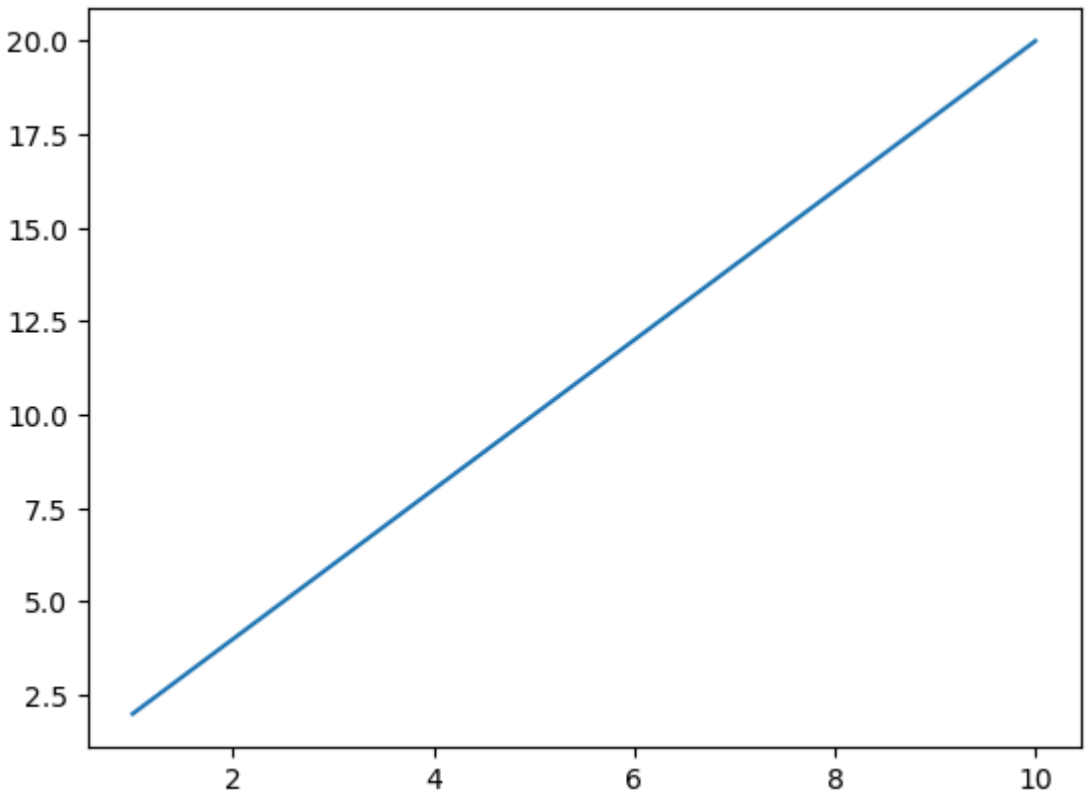
In [15]:
```
y=2*x
```

In [16]:
```
y
```

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

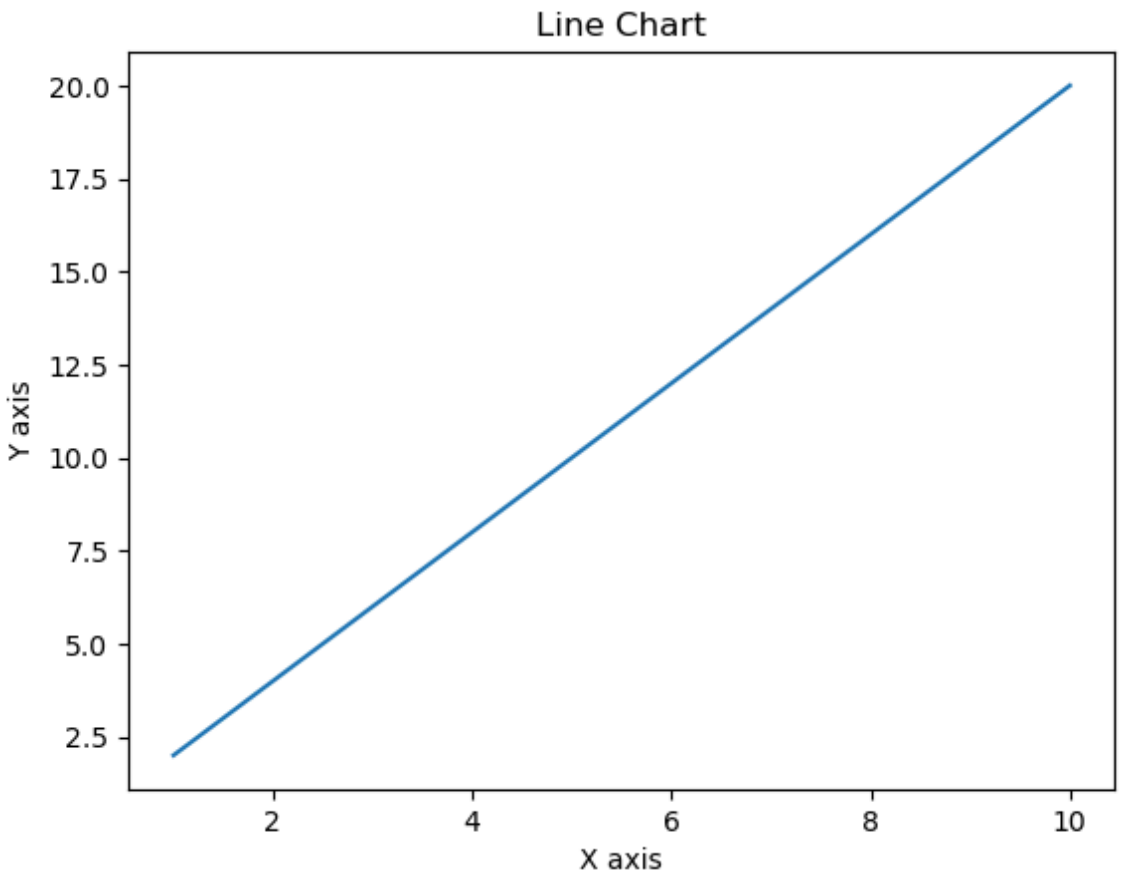
In [17]:
```
plt.plot(x,y)
plt.show
```

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



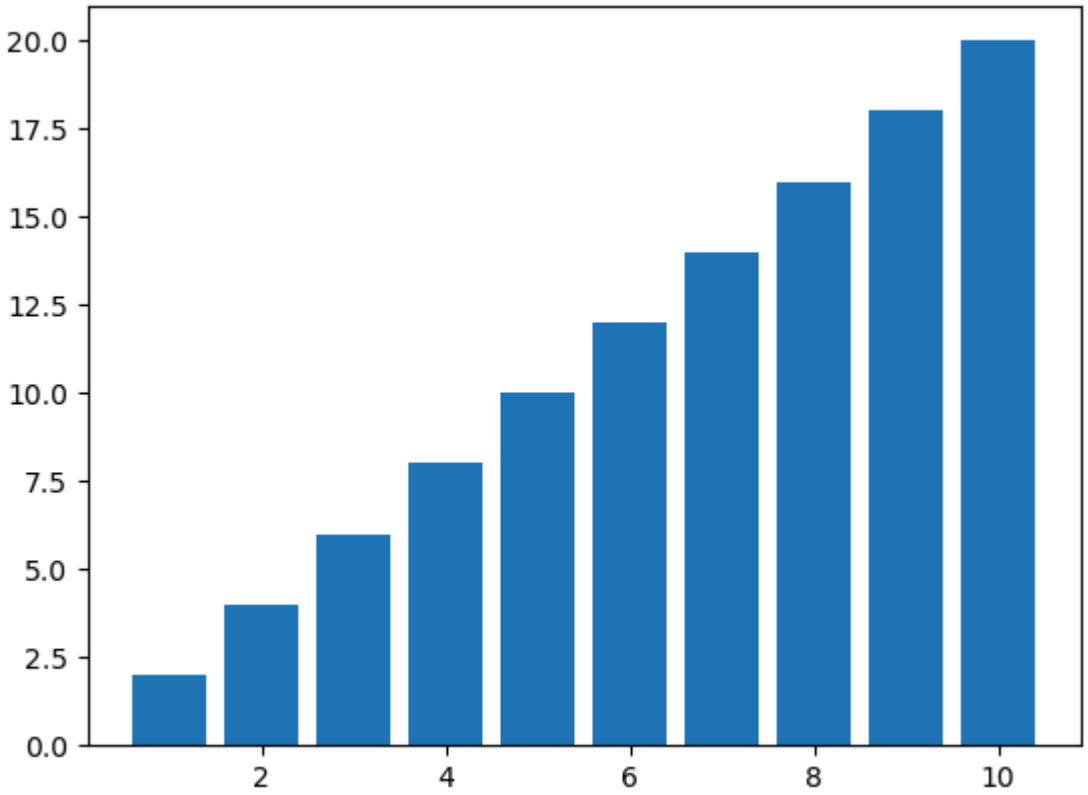
In [18]:
```
plt.plot(x,y)

plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

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



In [19]:
```
plt.bar(x,y)
plt.show
```

Out[19]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [20]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

Out[20]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```