Data Visusalisation

In [1]:
```
#Exp No : 5
```

In [2]:
```
# Aim:To perform data visualization on given data set using Matplotlib.
```

In [3]:
```
#Name : Kaushal A. Bharade
#Roll No : 11
#Sec : A
#Subject : Data Science and Statistics
#Date : 16/09/2023
```

In [4]:
```
a=20
b=30
c=a+b
c
```

Out[4]:
```
50
```

In [5]:
```
a=(1,2,3,"Ashish",2.3,True)
```

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

Out[6]:
```
tuple
```

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

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

In [8]:
```
a[1::1]
```

Out[8]:
```
(2, 3, 'Ashish', 2.3, True)
```

In [9]:
```
b=[1,2,3,"Ashish",2.3,True]
```

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

Out[10]:
```
list
```

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

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

In [12]:
```
import numpy as np
```

In [13]:
```
from matplotlib import pyplot as plt
```

In [14]:
```
a[0]
```

Out[14]:
```
1
```

In [15]:
```
x=np.arange(1,11)
```

In [16]:
```
x
```

Out[16]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

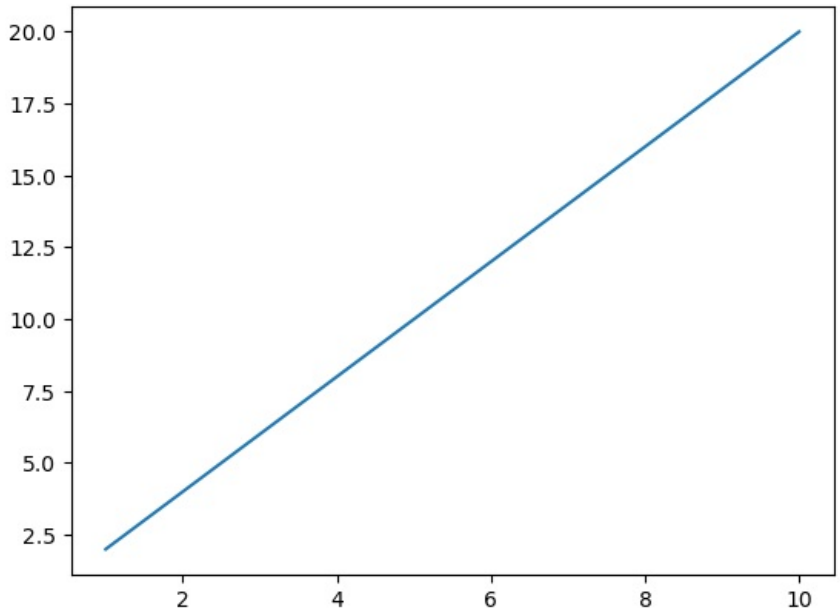
In [17]:
```
y=2*x
```

In [18]:
```
y
```

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

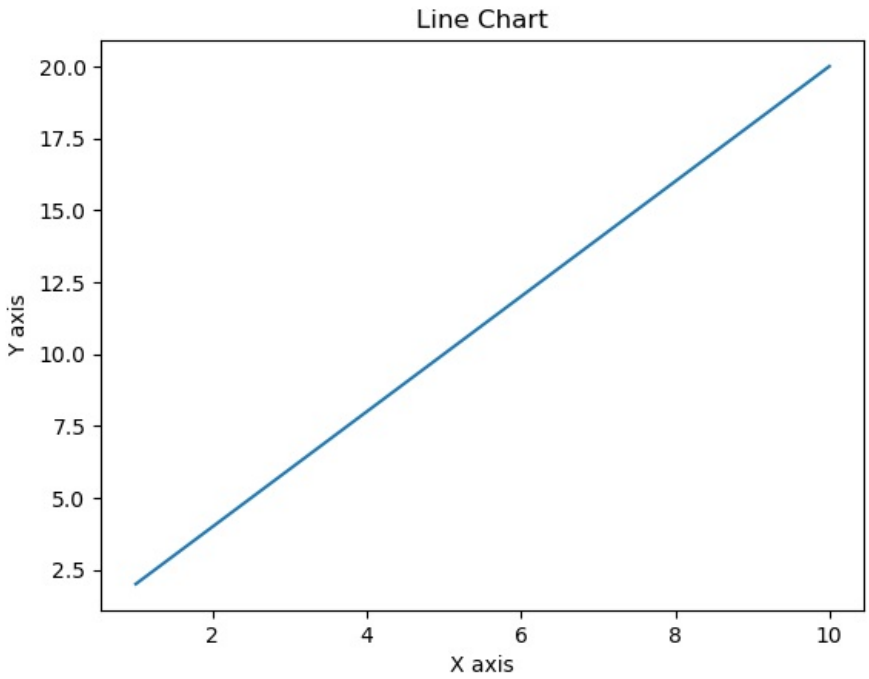
In [19]:
```
plt.plot(x,y)
plt.show
```

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



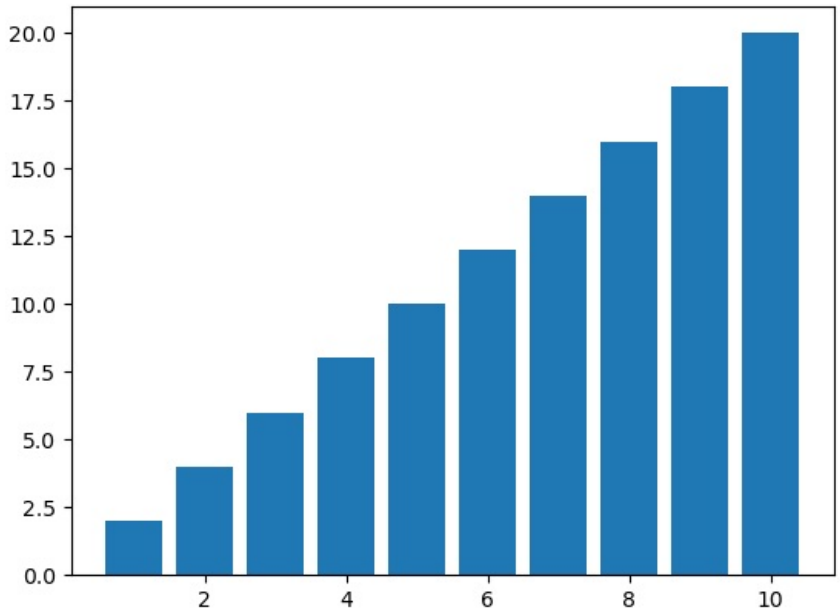
In [20]:
```
plt.plot(x,y)

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

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



In [21]:
```
plt.bar(x,y)
plt.show
```

Out[21]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [22]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

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