Data Visualization

Aim : To perform Data Visualization on given dataset using Pandas

In [3]:
```
#Name : Rajshri Kirandas Satpute
#Roll No. : 55
#Section : B
#Year : 3rd year
#Date : 02/09/2023
```

In [5]:
```
a=20
```

In [6]:
```
b=30
```

In [7]:
```
c=a+b
```

In [8]:
```
c
```

Out[8]:
```
50
```

In [10]:
```
a=(1,2,3,"Rajshri",22.5,True)
```

In [11]:
```
type(a)
```

Out[11]:
```
tuple
```

In [12]:
```
len(a)
```

Out[12]:
```
6
```

In [13]:
```
a[0]
```

Out[13]:
```
1
```

In [14]:
```
b=[1,2,3,"Rajshri",22.5,True]
```

In [15]:
```
type(b)
```

Out[15]:
```
list
```

In [16]:
```
len(b)
```

Out[16]:
```
6
```

In [17]:
```
import numpy as np
```

In [18]:
```
from matplotlib import pyplot as plt
```

In [19]:
```
x=np.arange(1,11)
```

In [20]:
```
x
```

Out[20]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

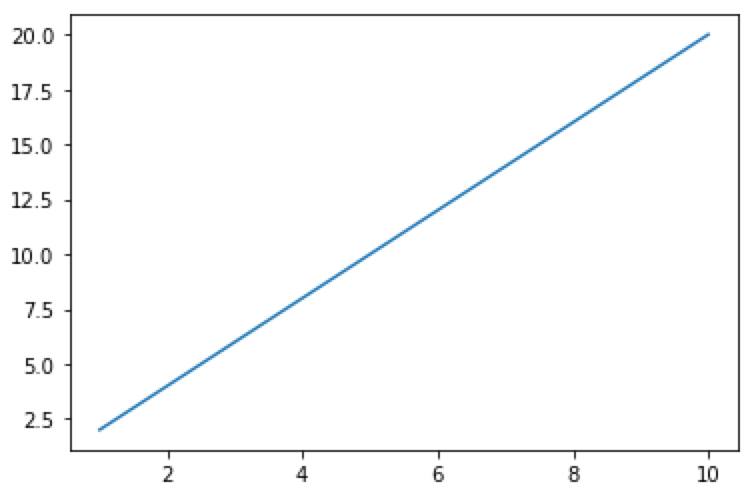
In [21]:
```
y=2*x
```

In [22]:
```
y
```

Out[22]:
```
array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

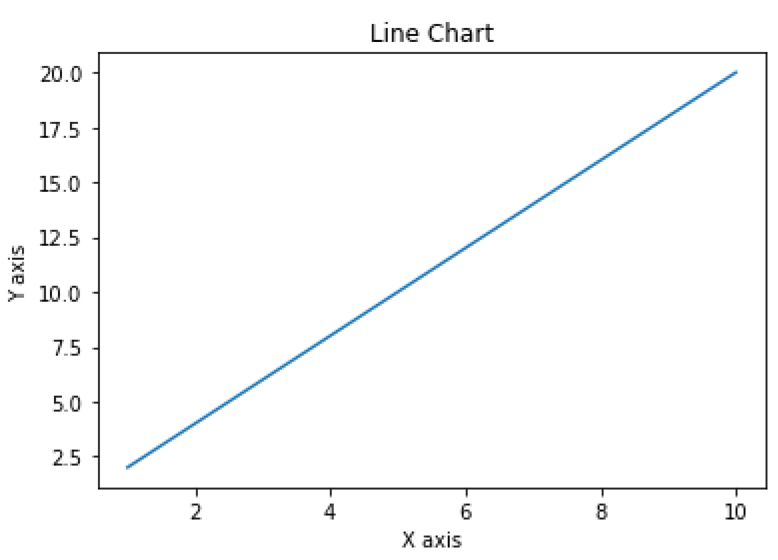
In [23]:
```
plt.plot(x,y)
```

Out[23]:
```
[<matplotlib.lines.Line2D at 0x2536dfc9310>]
```



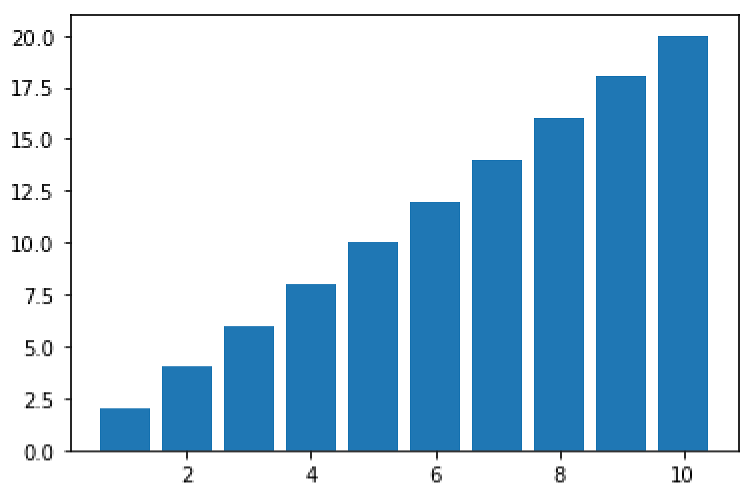
In [24]:
```
plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

Out[24]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



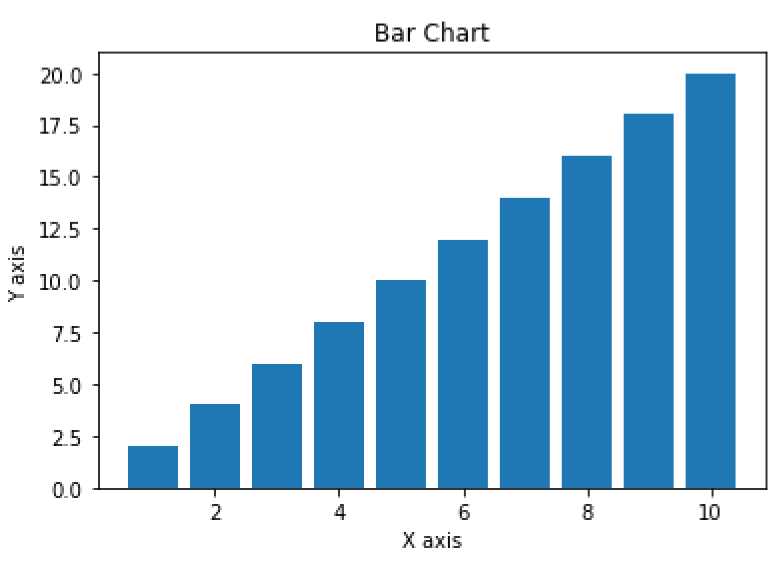
In [25]:
```
plt.bar(x,y)
plt.show
```

Out[25]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [27]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

Out[27]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [ ]: