Data Visualization

In [1]:
```
#Name : Samruddhi N Sakharkar
#Roll no.
#Section :3C
#Date : 18/08/2024
```

In [2]:
```
#Aim : Perform Operation on Data Visualization
```

In [3]:
```
#importing the basic library
import numpy as np
from matplotlib import pyplot as plt
```

In [4]:
```
x=np.arange(1,11)
```

In [5]:
```
x
```

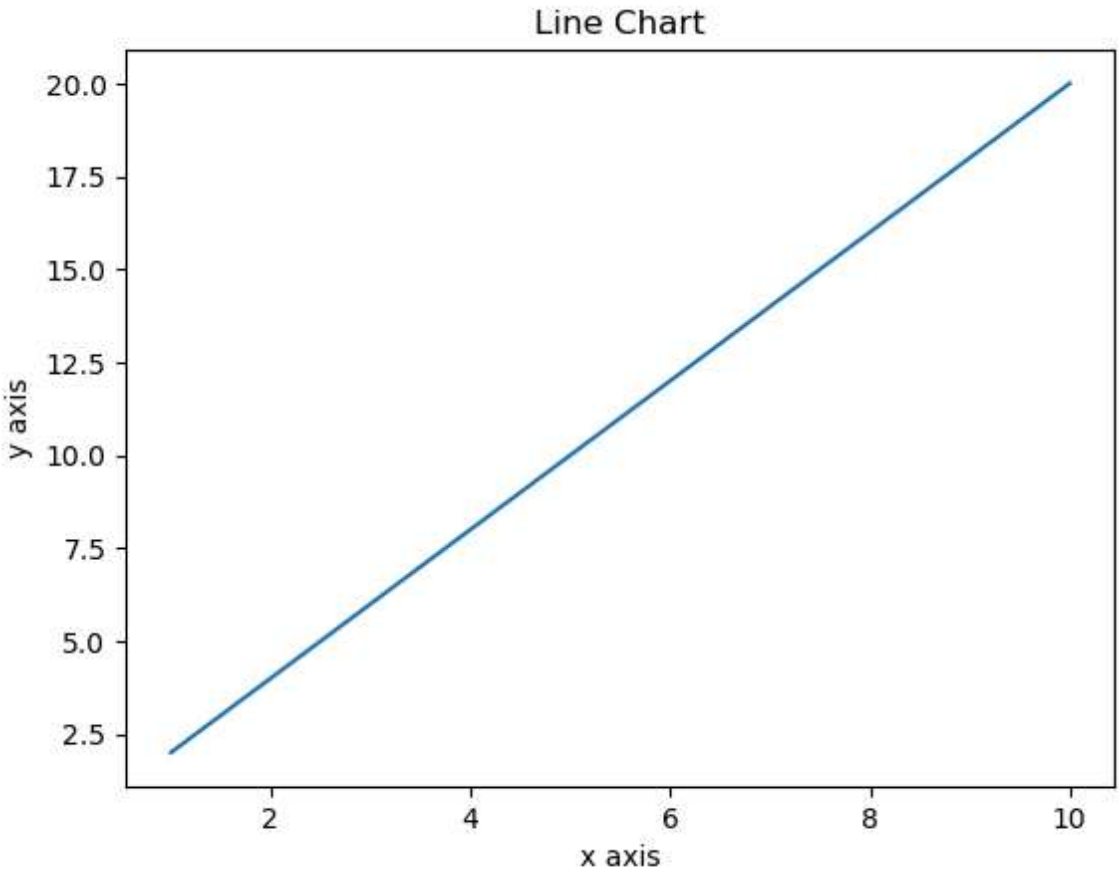
Out[5]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

In [6]:
```
y=2*x
```

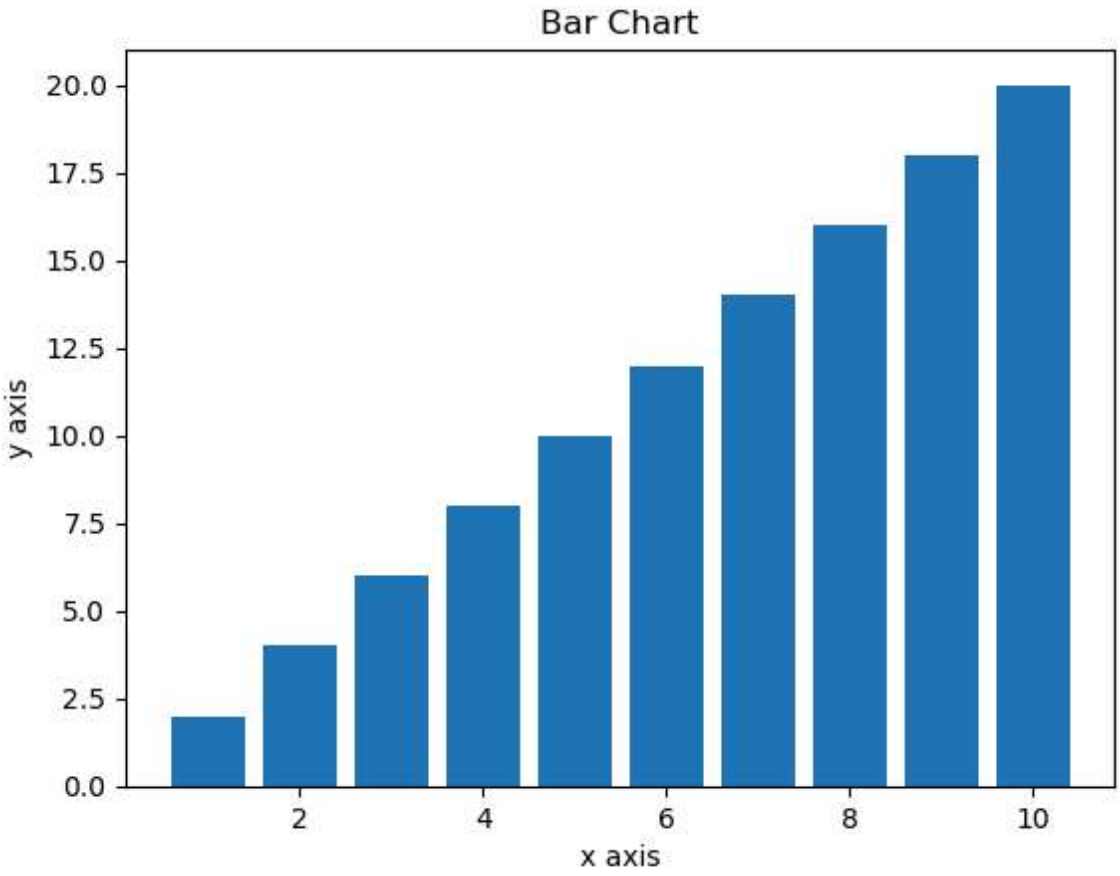
In [7]:
```
y
```

Out[7]:
```
array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

In [8]:
```
plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



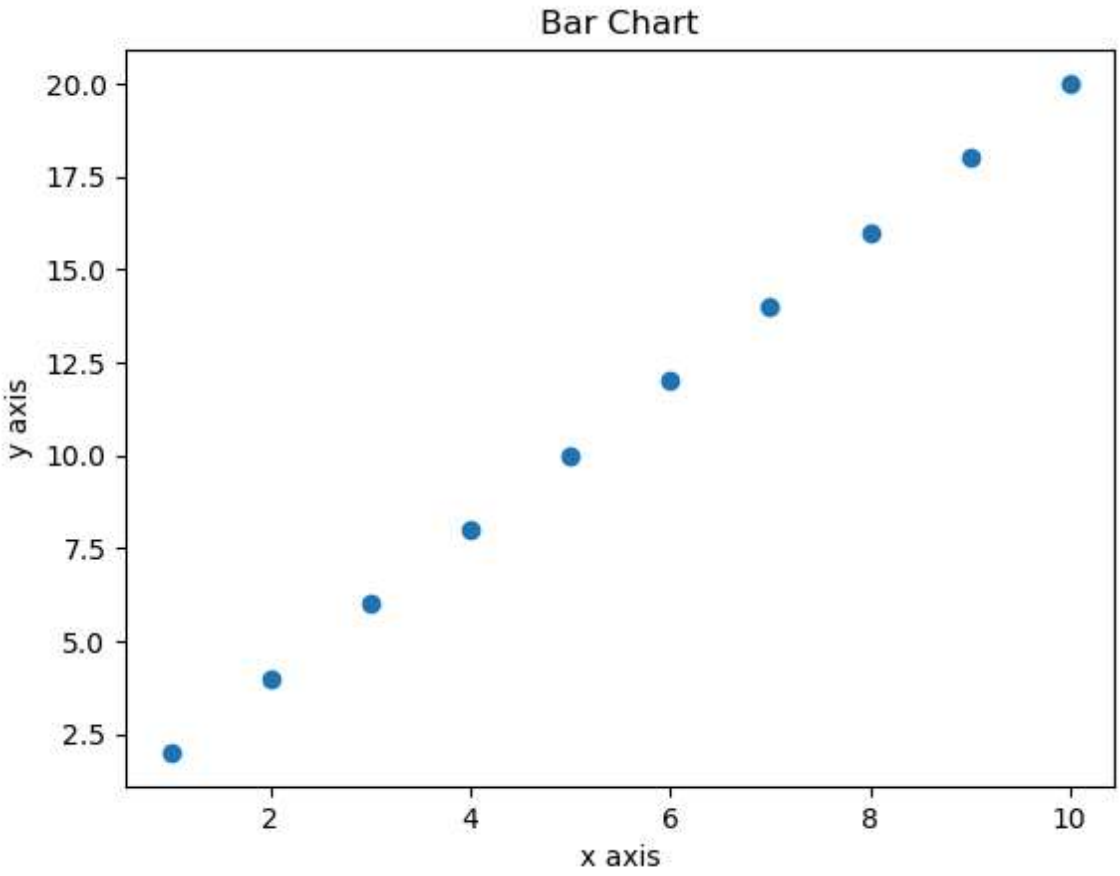
In [9]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



In [ ]:
```
```

Scatter Plot

In [10]:
```
plt.scatter(x,y)
plt.title("Bar Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



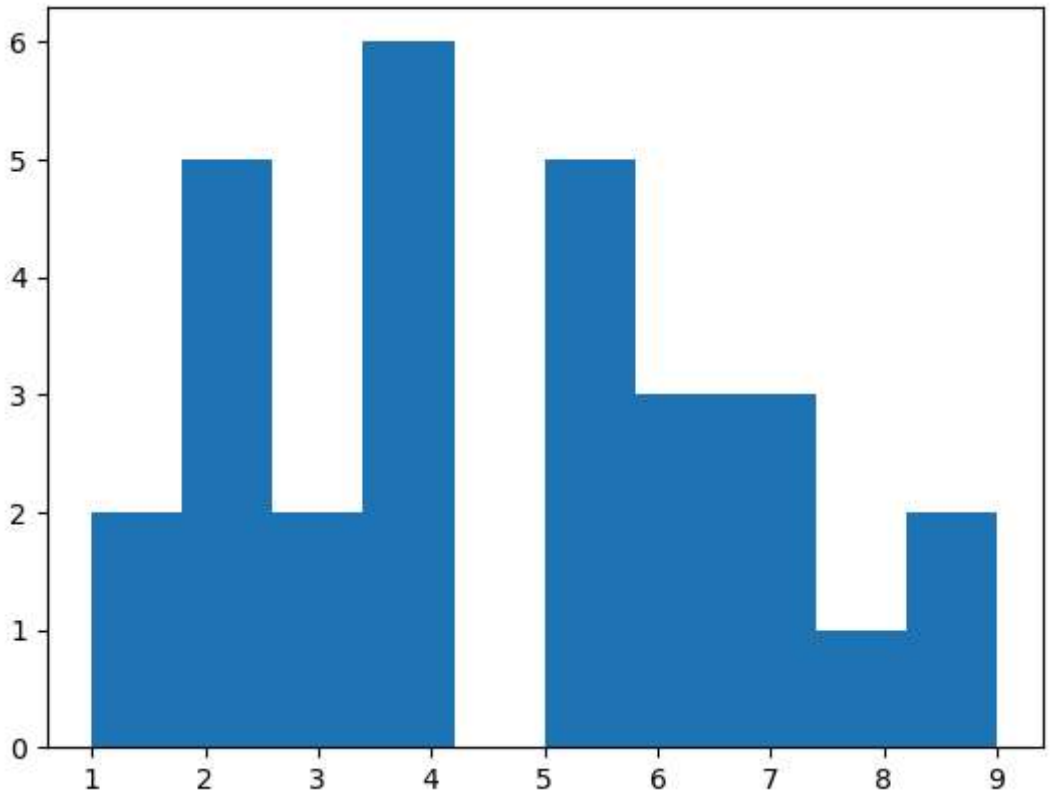
In [ ]:
```

```

Histogram

In [11]:
```
H=[1,2,1,2,2,2,3,4,5,5,5,6,5,4,7,7,8,9,4,4,6,7,2,9,6,3,5,4,4]
```

In [12]:
```
plt.hist(H)
plt.show()
```



In [ ]:
```

```