DATA VISUALIZATION

In [1]:
```
#Name : Akanksha Chandramohan Giri
#Roll no. : 41
#Section : 3A
#Date : 27/07/2024
```

In [2]:
```
#Aim : To perform data visualization
```

In [3]:
```
import numpy as np
from matplotlib import pyplot as plt
```

In [5]:
```
x=np.arange(1,11)
```

In [6]:
```
x
```

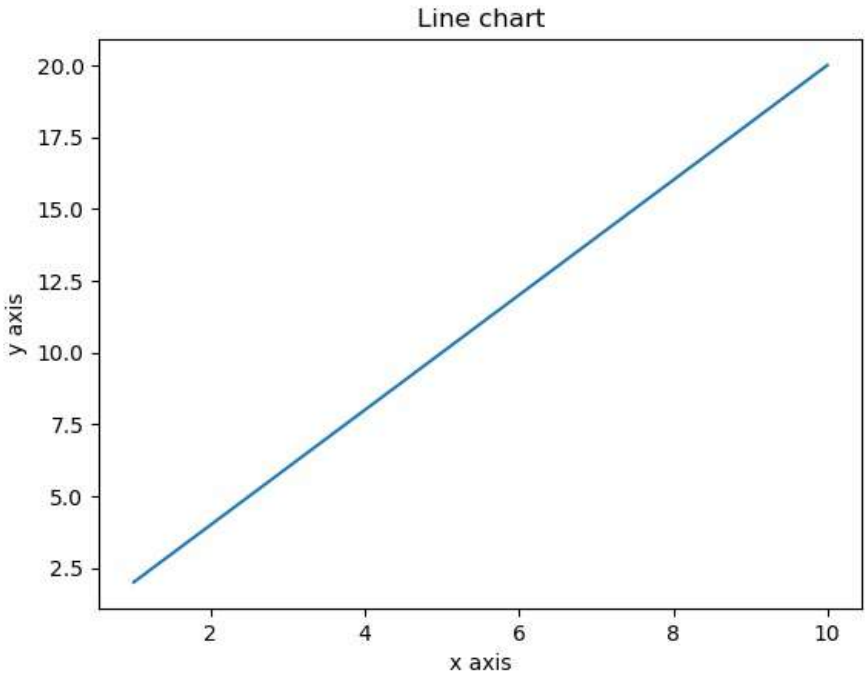
Out[6]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

In [7]:
```
y=2*x
```

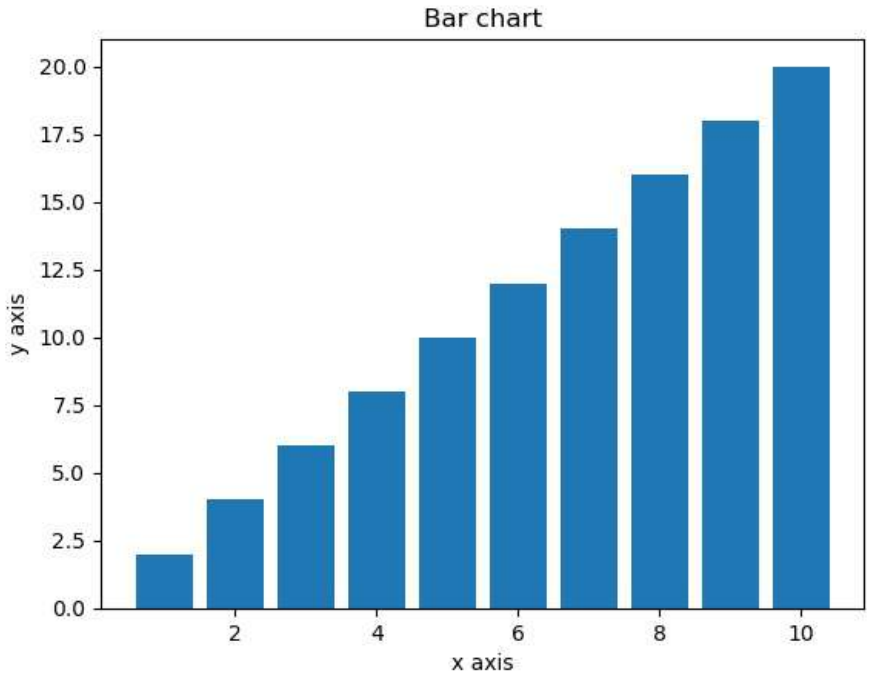
In [8]:
```
y
```

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

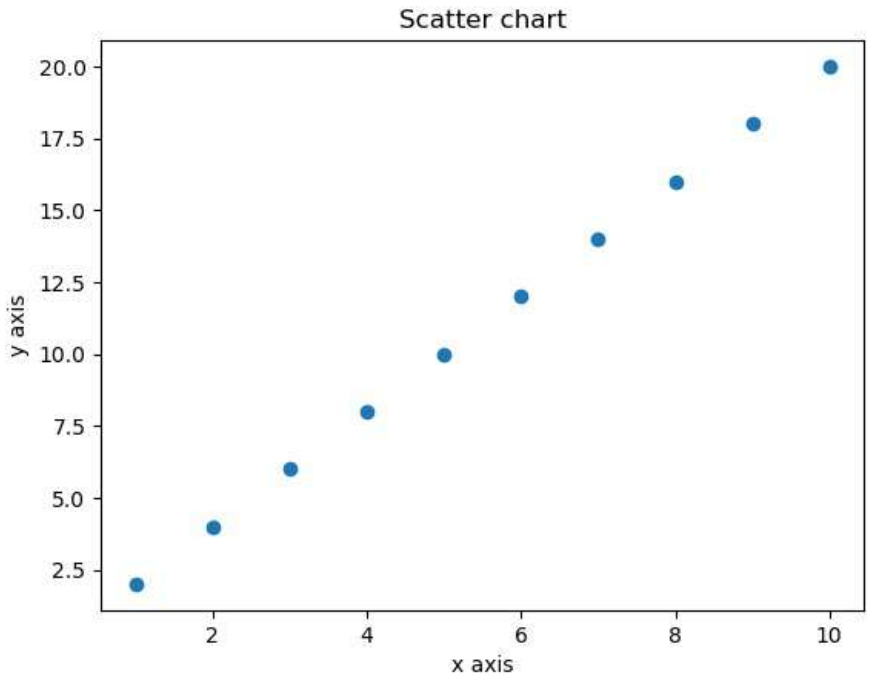
In [13]:
```
plt.plot(x,y)
plt.title("Line chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



In [14]:
```
plt.bar(x,y)
plt.title("Bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



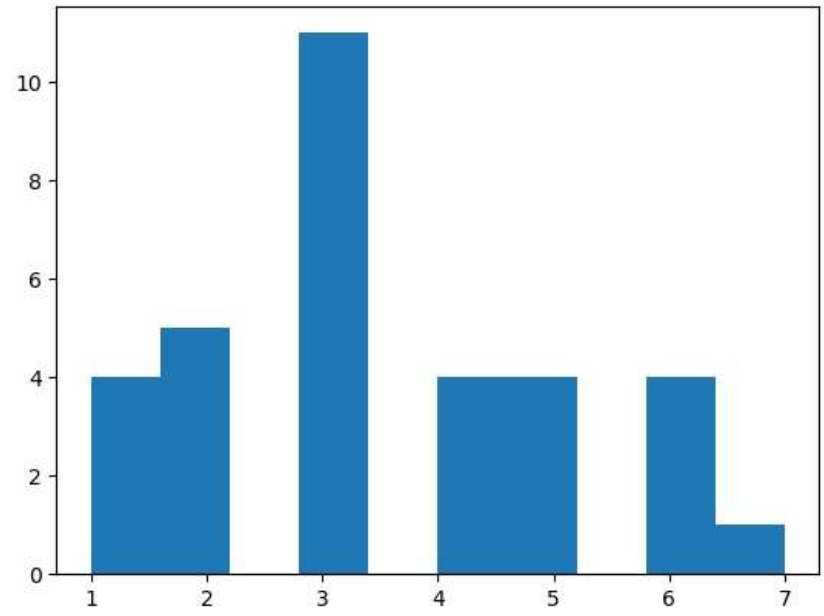
In [15]:
```
plt.scatter(x,y)
plt.title("Scatter chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



Histogram

In [16]:
```
H=1,2,3,3,4,6,7,4,3,2,1,2,3,4,5,5,6,6,5,4,3,3,3,3,3,3,5,6,2,1,1,2
```

In [17]:
```
plt.hist(H)
plt.show()
```



In [ ]: