Data Visualization

In [2]:
```
#Name: Yash Pravin Gadbail
#Roll no. : 35
#Sec: 3rd A
#Sub : ET 1
#Date:05/10/2024
```

In [4]:
```
# Aim: To Perform Data Visualization
```

In [6]:
```
import numpy as np
from matplotlib import pyplot as plt
```

In [8]:
```
x=np.arange(1,11)
```

In [11]:
```
x
```

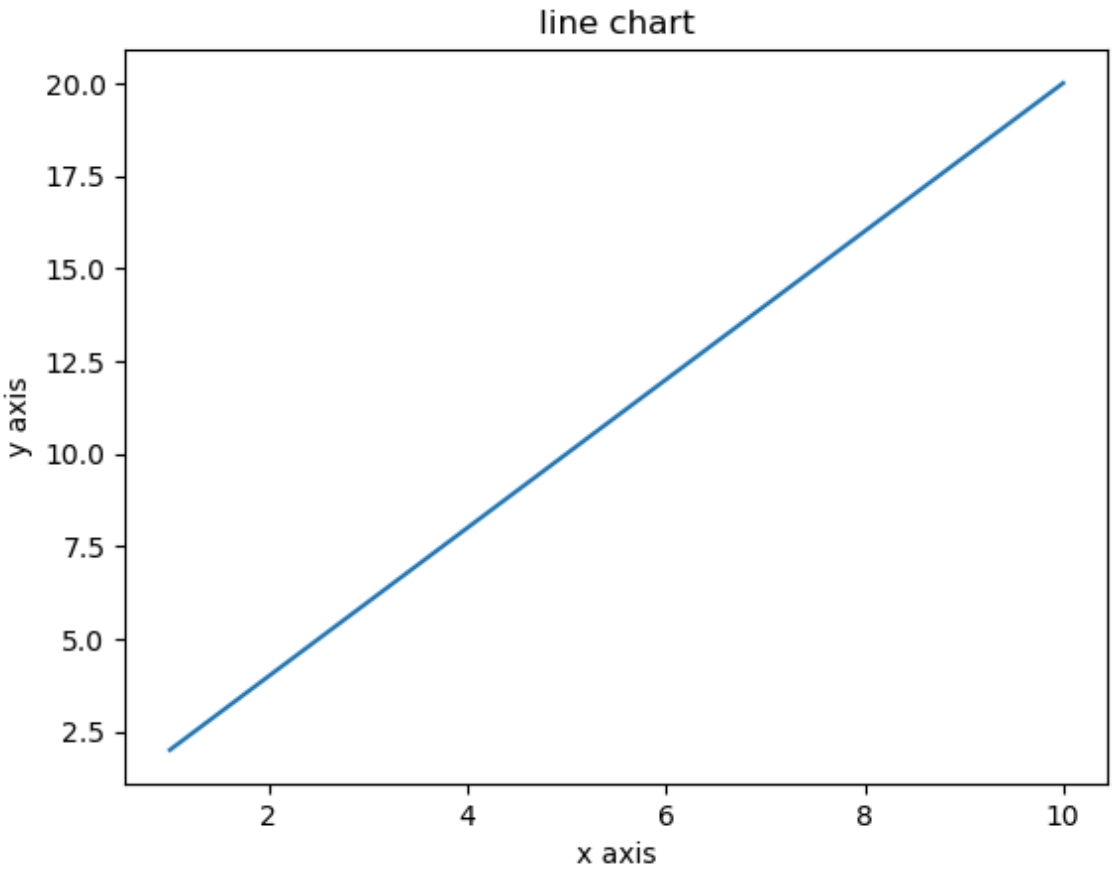
Out[11]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

In [13]:
```
y=2*x
```

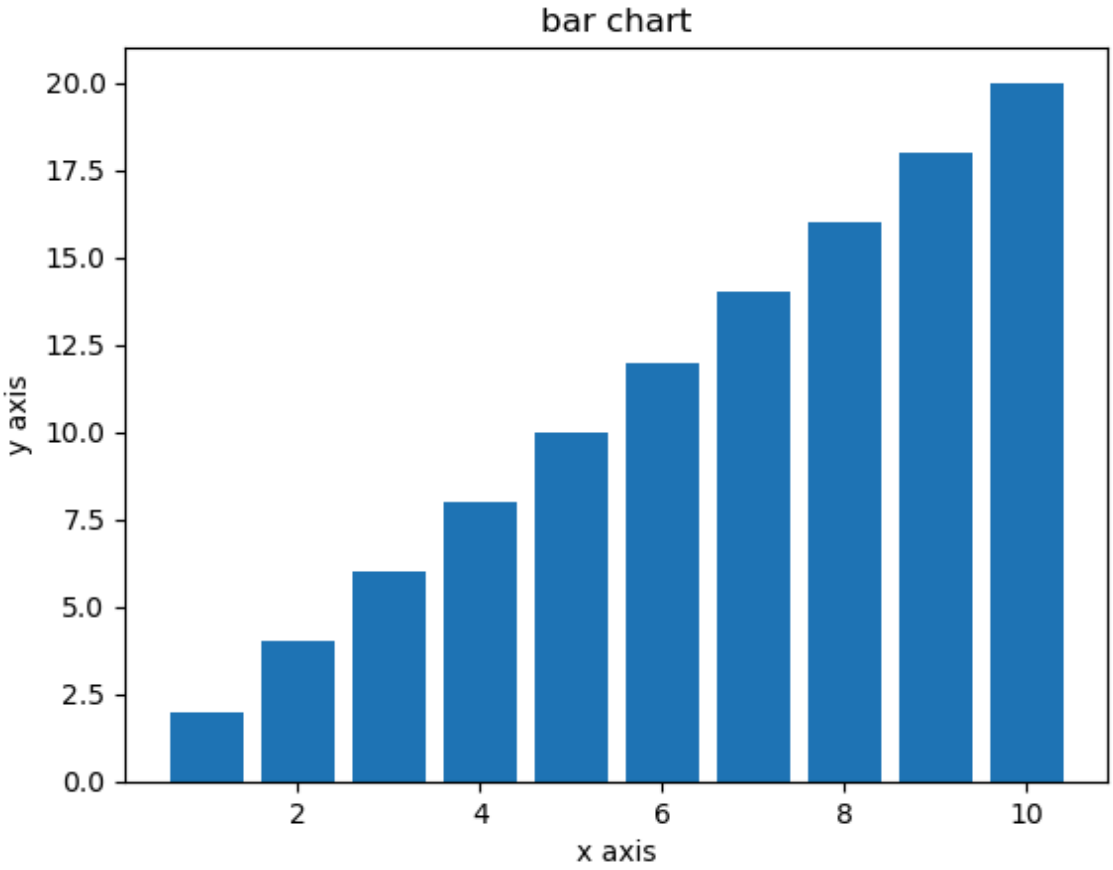
In [15]:
```
y
```

Out[15]:
```
array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

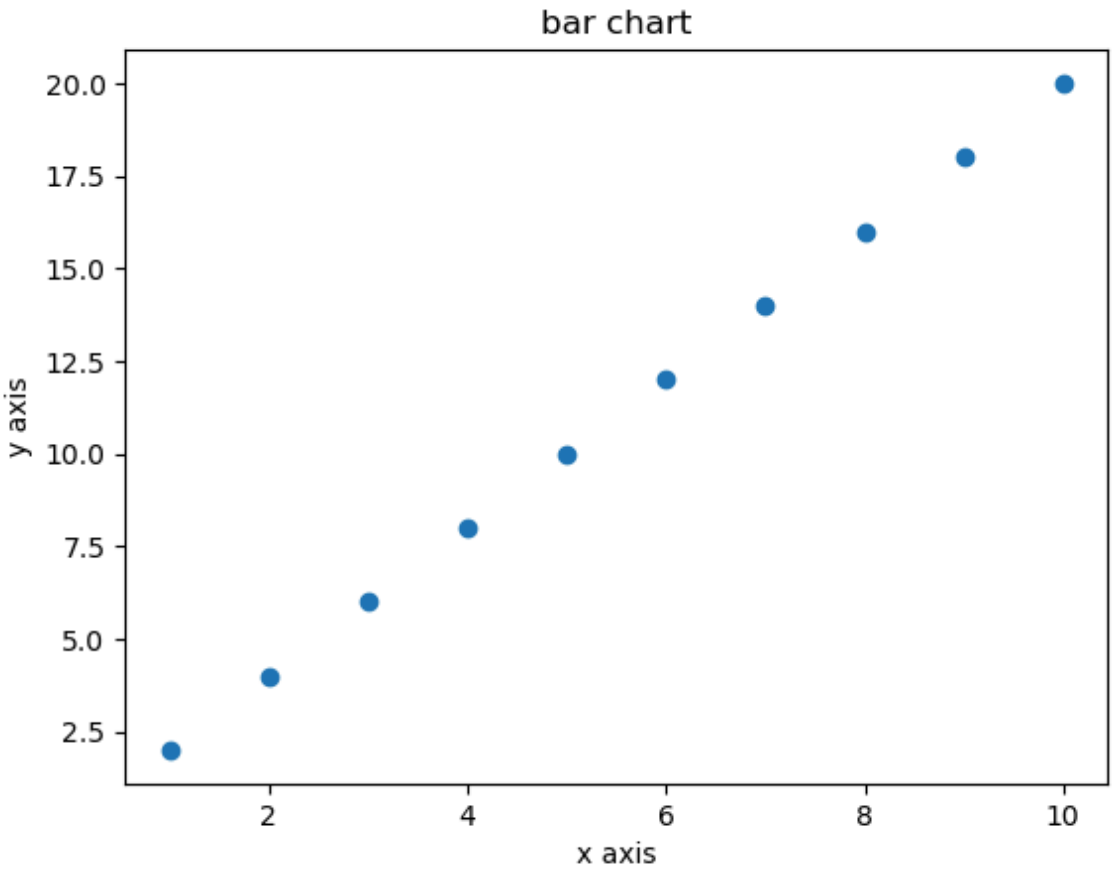
In [17]:
```
plt.plot(x,y)
plt.title("line chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



In [19]:
```
plt.bar(x,y)
plt.title("bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```

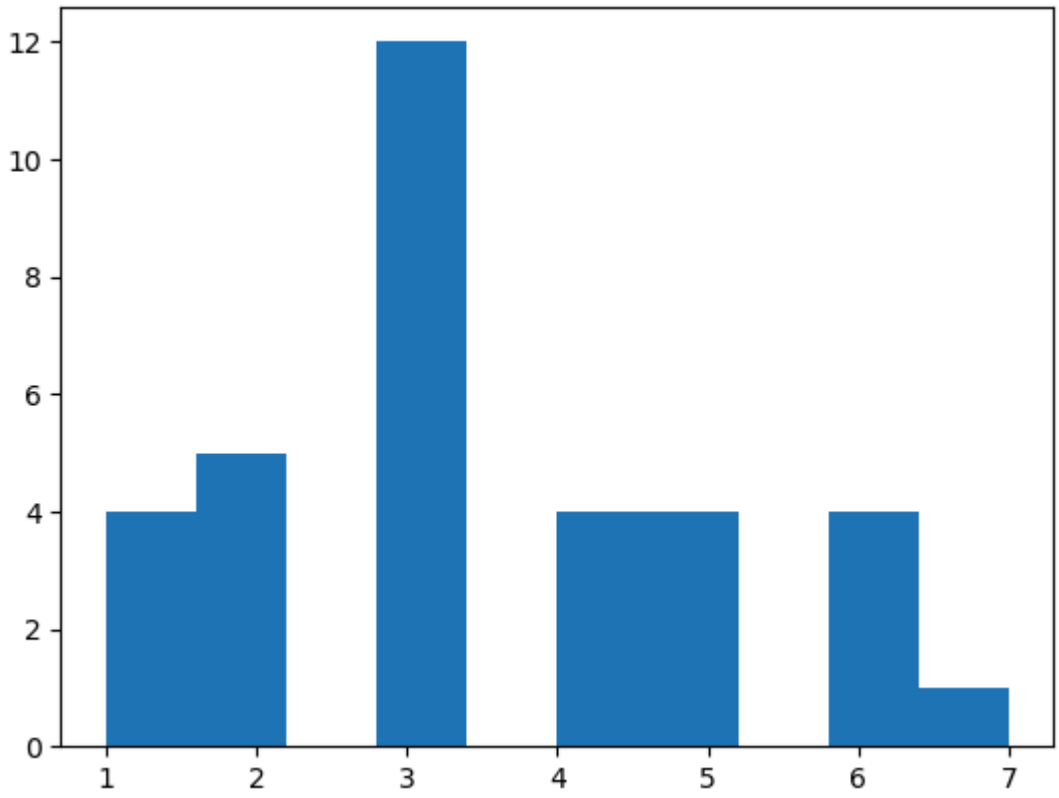


In [21]:
```
plt.scatter(x,y)
plt.title("bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



In [23]:
```
H=[1,2,3,3,4,6,7,4,3,2,1,2,3,4,5,5,6,6,5,4,3,3,3,3,3,3,3,5,6,3,2,1,1,2]
```

In [25]:
```
plt.hist(H)
plt.show()
```



In [ ]:
```
```