j91b8chgm

December 13, 2024

1 Data Visualization

[1]:
```
#Name :  Devesh J Arbat
#Roll no. : 06
#Section : A
```

[2]:
```
#Aim : Perform Opreation on Data Visualization
```

[4]:
```
#importing the basic library
import numpy as np
from matplotlib import pyplot as plt
```

[6]:
```
x=np.arange(1,11)
```

[7]:
```
x
```

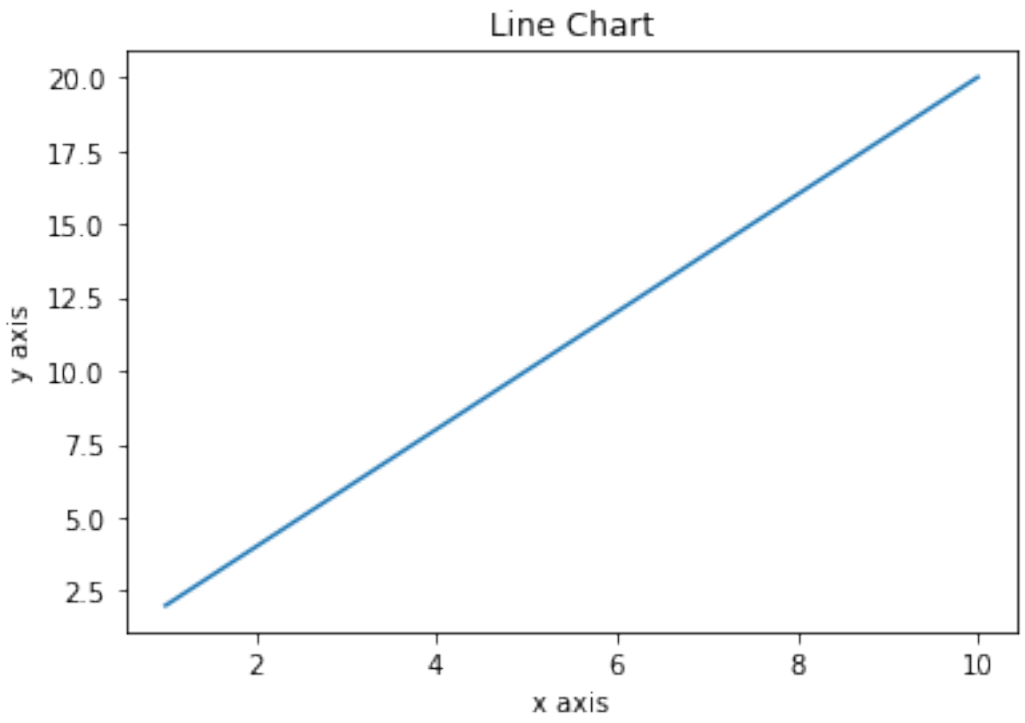
[7]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

[8]:
```
y=2*x
```

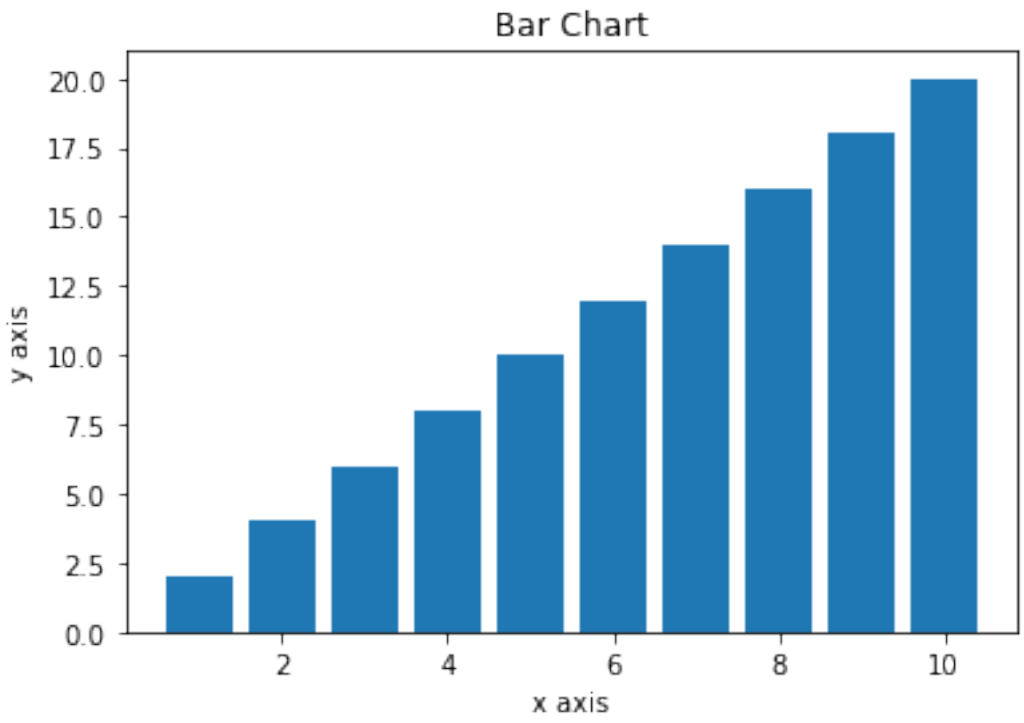
[9]:
```
y
```

[9]:
```
array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

[10]:
```
plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```

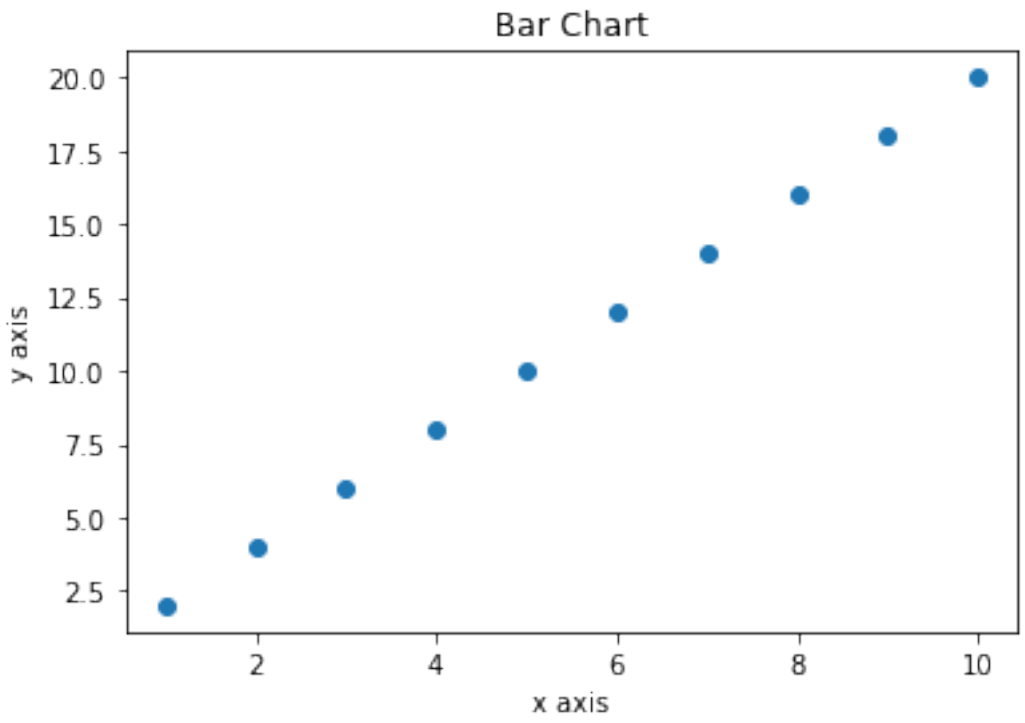


[11]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



2 Scatter Plot

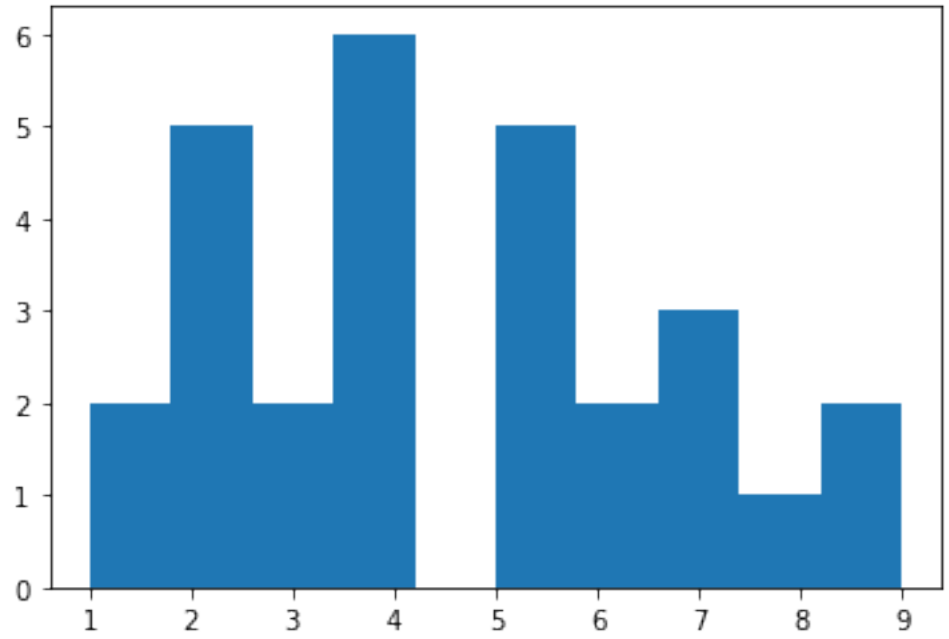
[12]:
```
plt.scatter(x,y)
plt.title("Bar Chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



3 Histogram

[13]:
```
H=[1,2,1,2,2,2,3,4,5,5,5,6,5,4,7,7,8,9,4,4,6,7,2,9,3,5,4,4]
```

[14]:
```
plt.hist(H)
plt.show()
```


6
5
4
3
2
1
0
1
2
3
4
5
6
7
8
9

[ ]: