

Data Visualization

In [1]: `#Exp no.:7`

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

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#Subject:ET - 1
#Date: 06/09/2024`

In [5]: `import numpy as np
from matplotlib import pyplot as plt`

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

In [7]: `x`

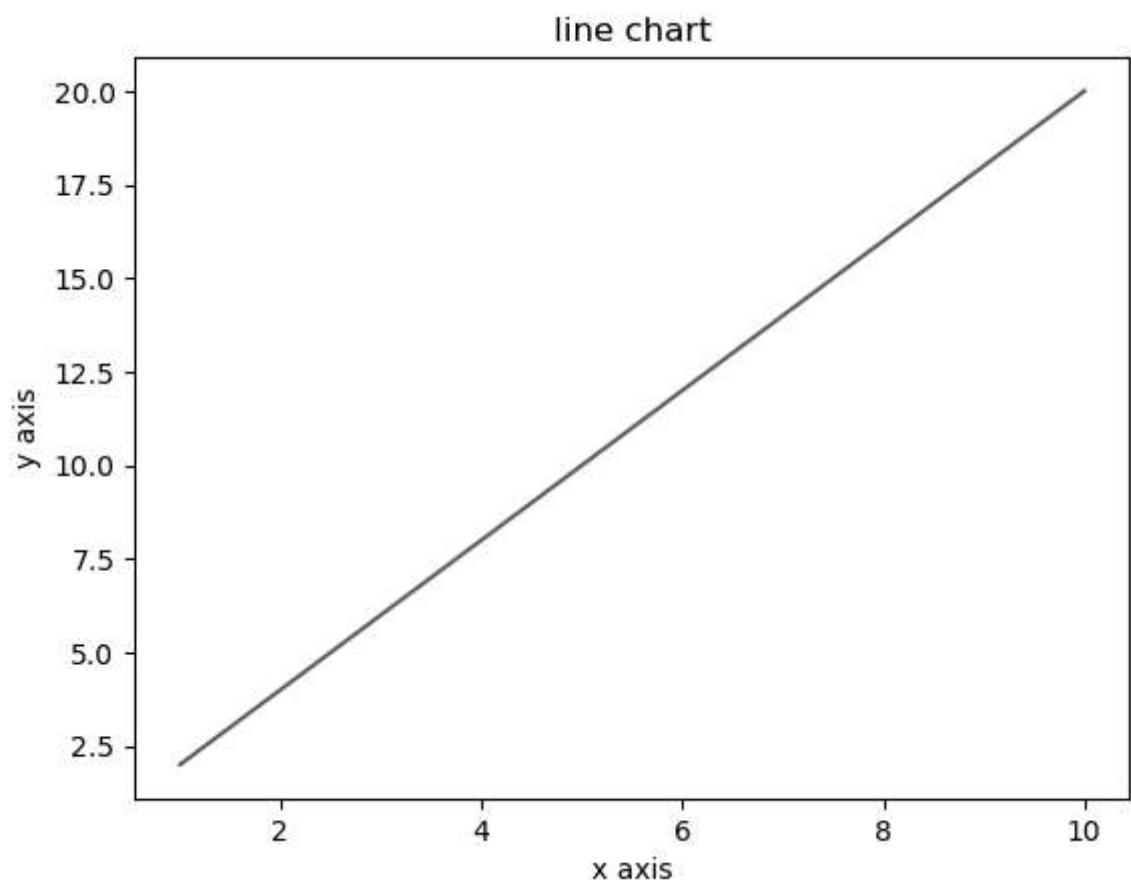
Out[7]: `array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10])`

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

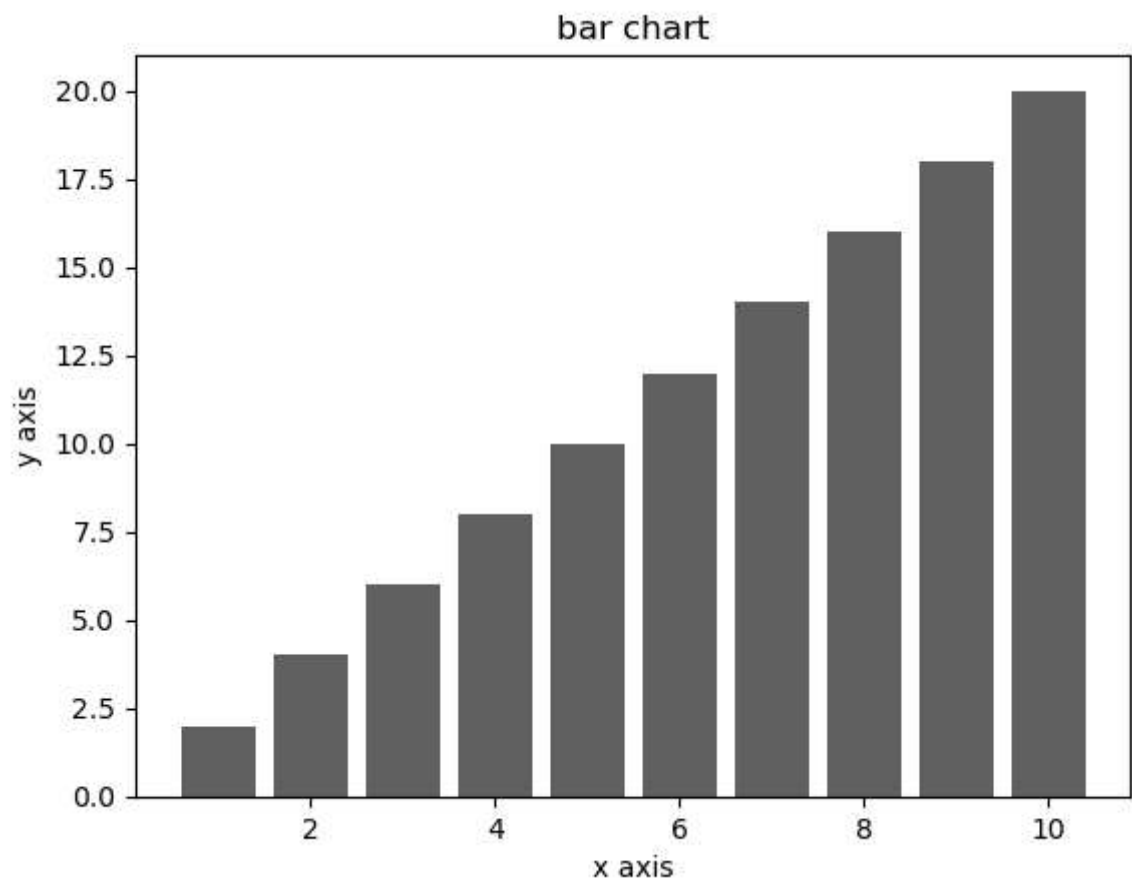
In [9]: `y`

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

```
In [11]: plt.plot(x,y)
plt.title("line chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```

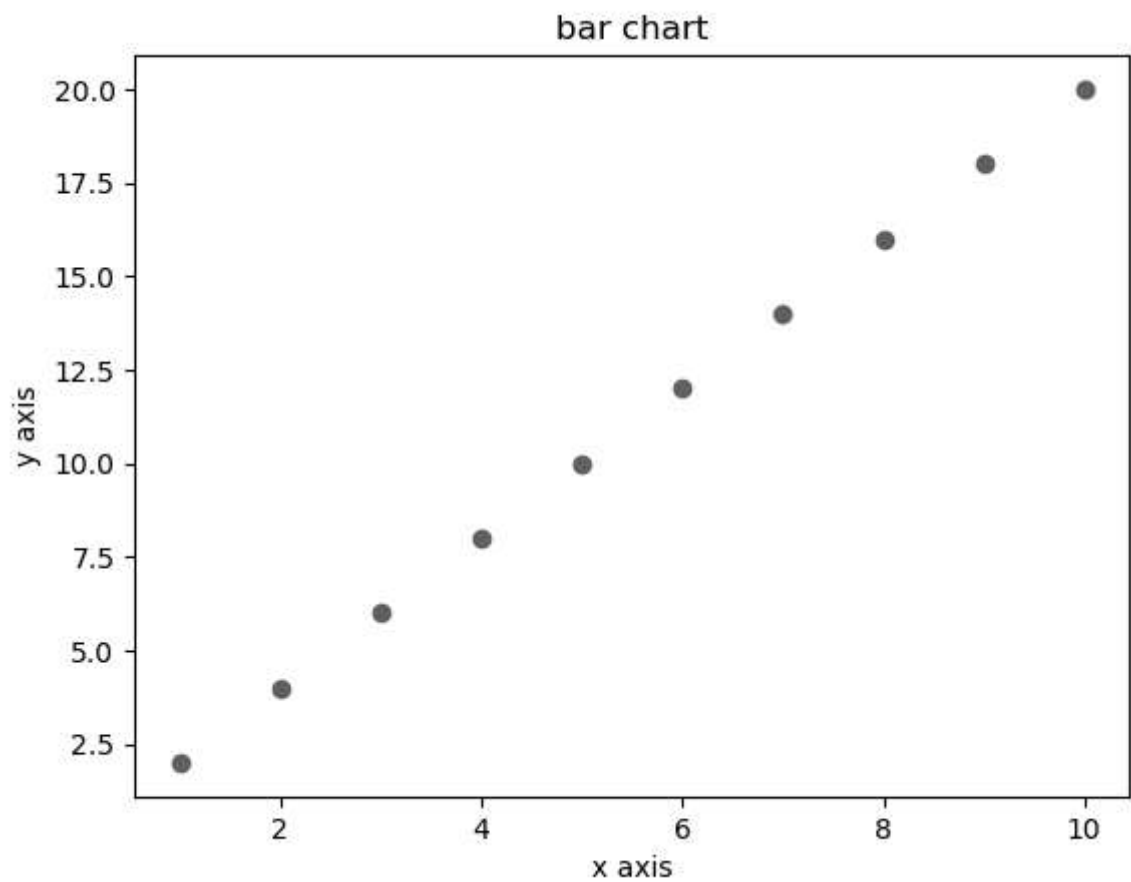


```
In [12]: plt.bar(x,y)
plt.title("bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



Scatter Plot

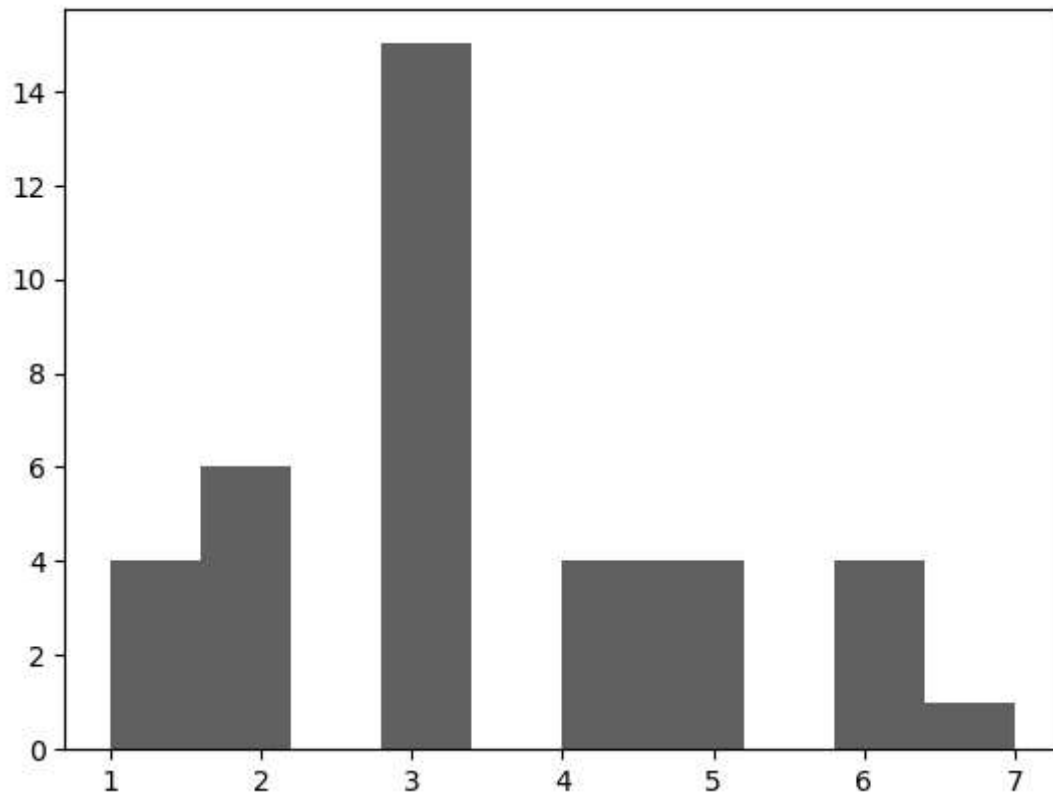
```
In [13]: plt.scatter(x,y)
plt.title("bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



Histogram

```
In [15]: H=[1,2,3,3,4,6,7,4,3,2,1,2,3,4,5,5,6,6,5,4,3,3,3,3,3,3,3,5,6,3,2,1,1,2,2,3,3,
```

```
In [16]: plt.hist(H)  
plt.show()
```



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In [ ]:
```