

DATA VISUALIZATION

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In [2]: #Name : Ashwini V Kayande  
#Roll No : 60  
#Section : 3A  
#Date :27/07/2024
```

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In [4]: #Aim : to perform data visualization
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In [6]: import numpy as np  
from matplotlib import pyplot as plt
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In [8]: x=np.arange(1,11)
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```
In [10]: x
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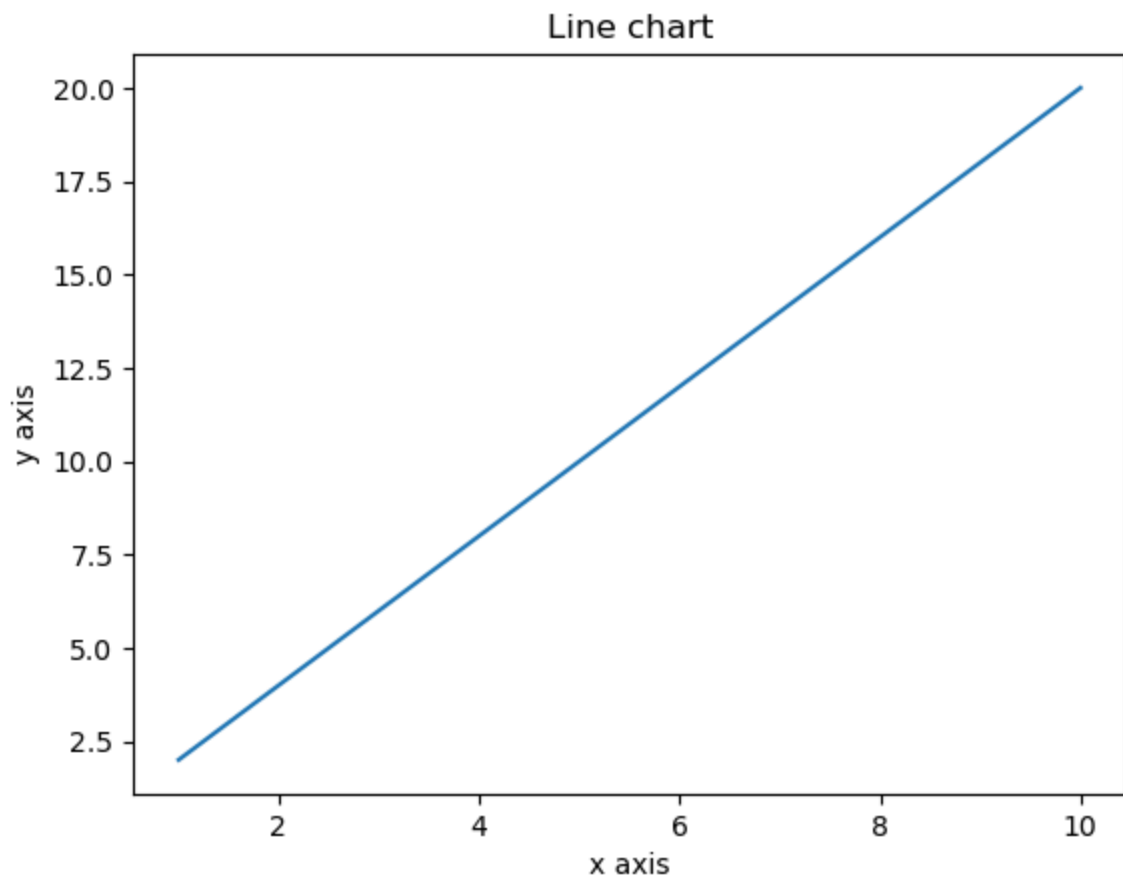
```
Out[10]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

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In [12]: y=2*x
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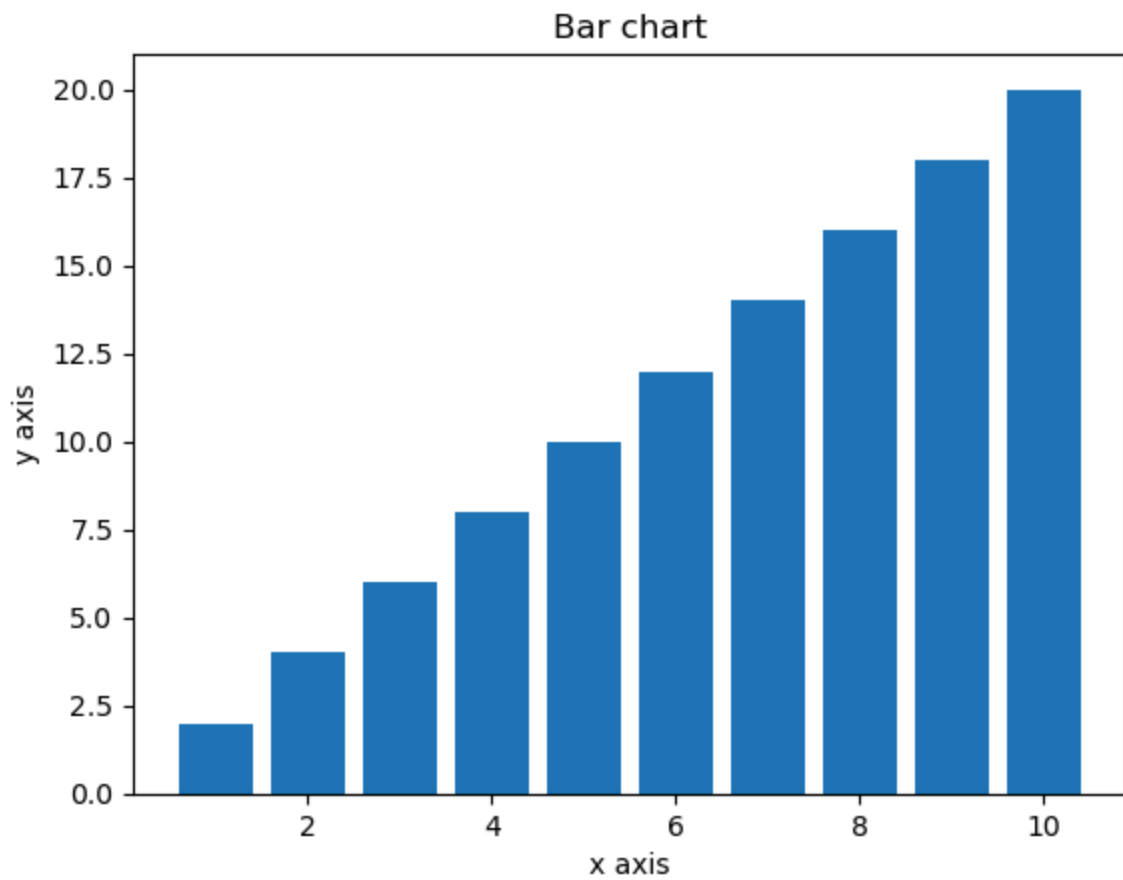
```
In [14]: y
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Out[14]: array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

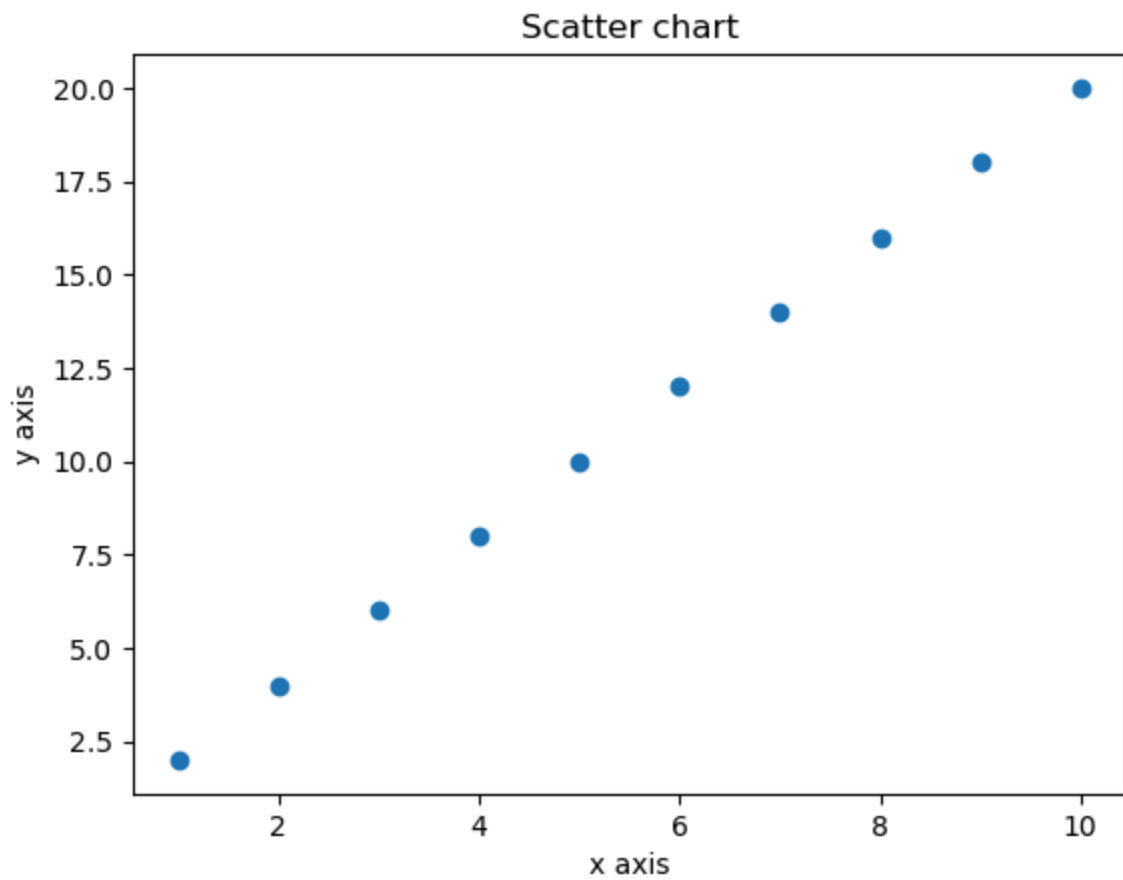
```
In [16]: plt.plot(x,y)  
plt.title("Line chart")  
plt.xlabel("x axis")  
plt.ylabel("y axis")  
plt.show()
```



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In [18]: plt.bar(x,y)
plt.title("Bar chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```

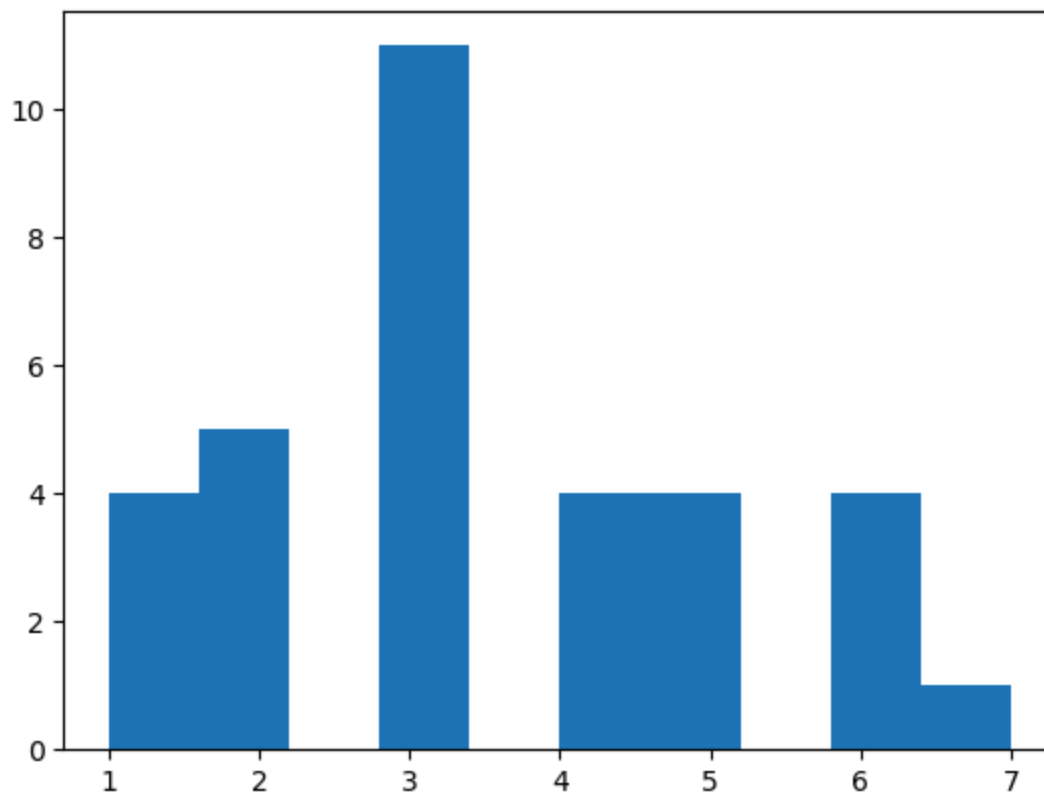


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In [20]: plt.scatter(x,y)
plt.title("Scatter chart")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



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In [22]: H=1,2,3,3,4,6,7,4,3,2,1,2,3,4,5,5,6,6,5,4,3,3,3,3,3,3,3,3,5,6,2,1,1,2
```

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In [24]: plt.hist(H)  
plt.show()
```



In []: