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In [1]: # Aim: To perform data visualization on given data set usinh Matplotlib

In [2]: # Name : Shriya Mechineni
# class : 3rd year
# Section : A
# Roll No. : 49

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

In [4]: x= np.arange(1,11)

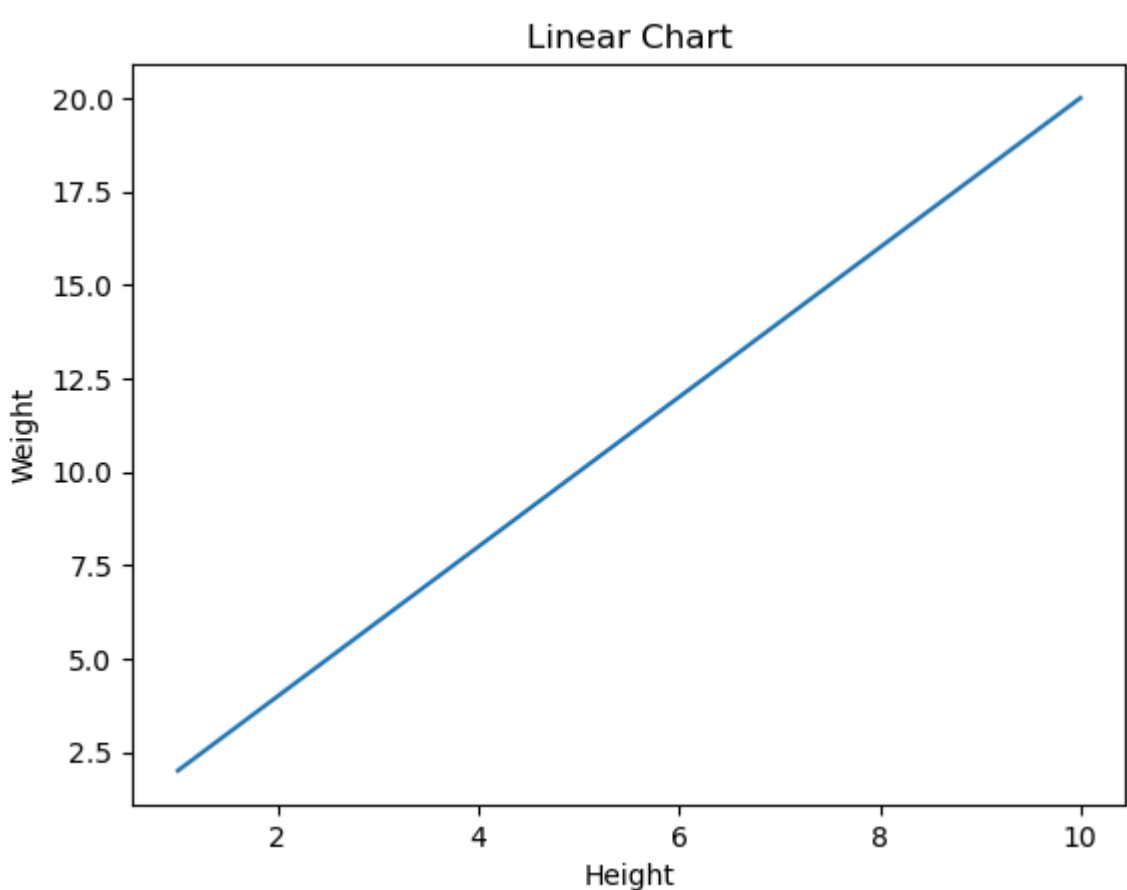
In [5]: print(x)

[ 1  2  3  4  5  6  7  8  9 10]

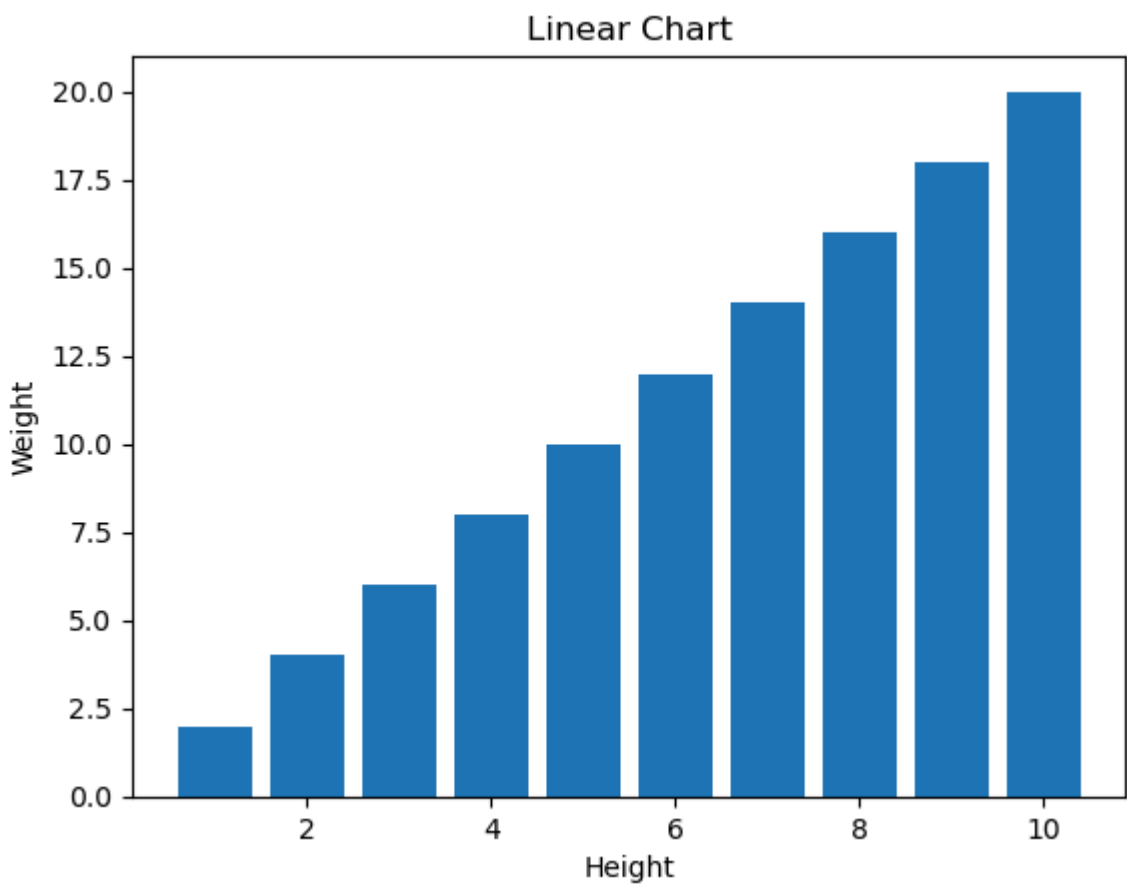
In [6]: y = x*2
print(y)

[ 2  4  6  8 10 12 14 16 18 20]

In [7]: plt.plot(x,y)
plt.title("Linear Chart")
plt.xlabel("Height")
plt.ylabel("Weight")
plt.show()
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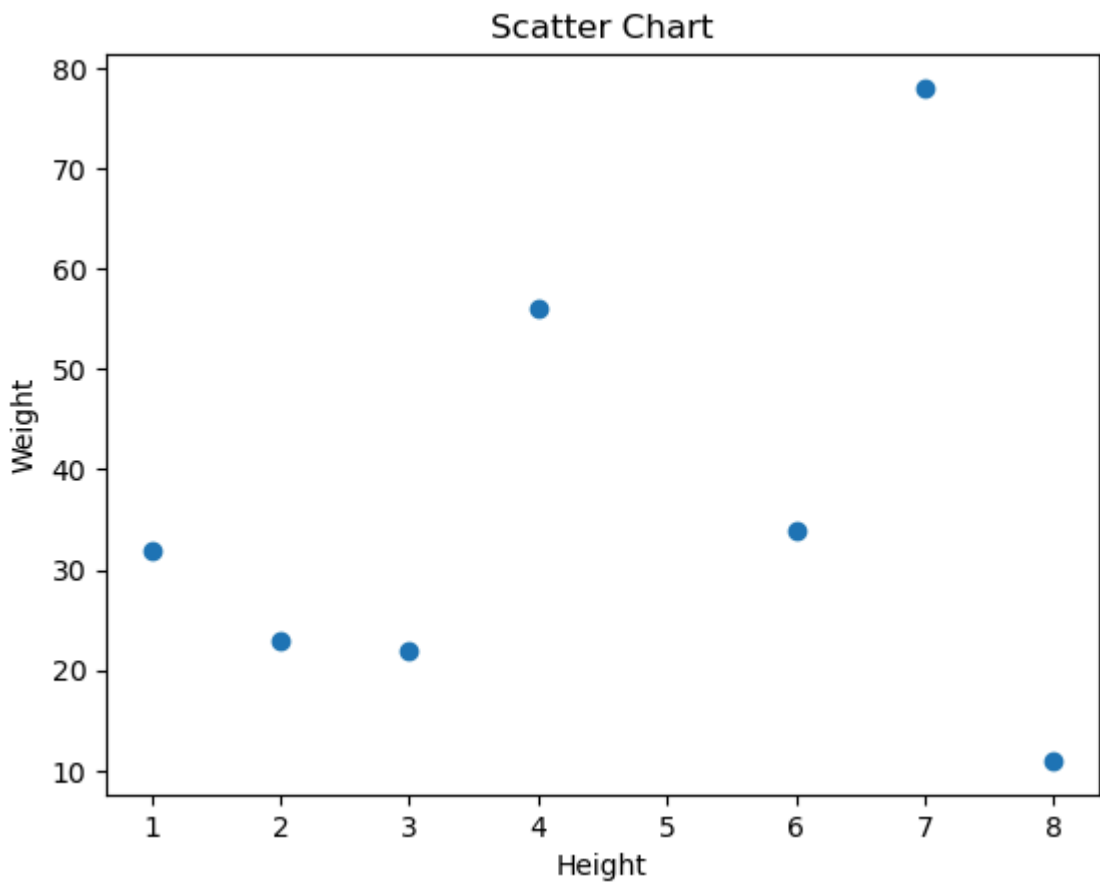


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In [8]: plt.bar(x,y)
plt.title("Linear Chart")
plt.xlabel("Height")
plt.ylabel("Weight")
plt.show()
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In [9]: a = (1,4,7,2,8,3,6)
b = (32,56,78,23,11,22,34)

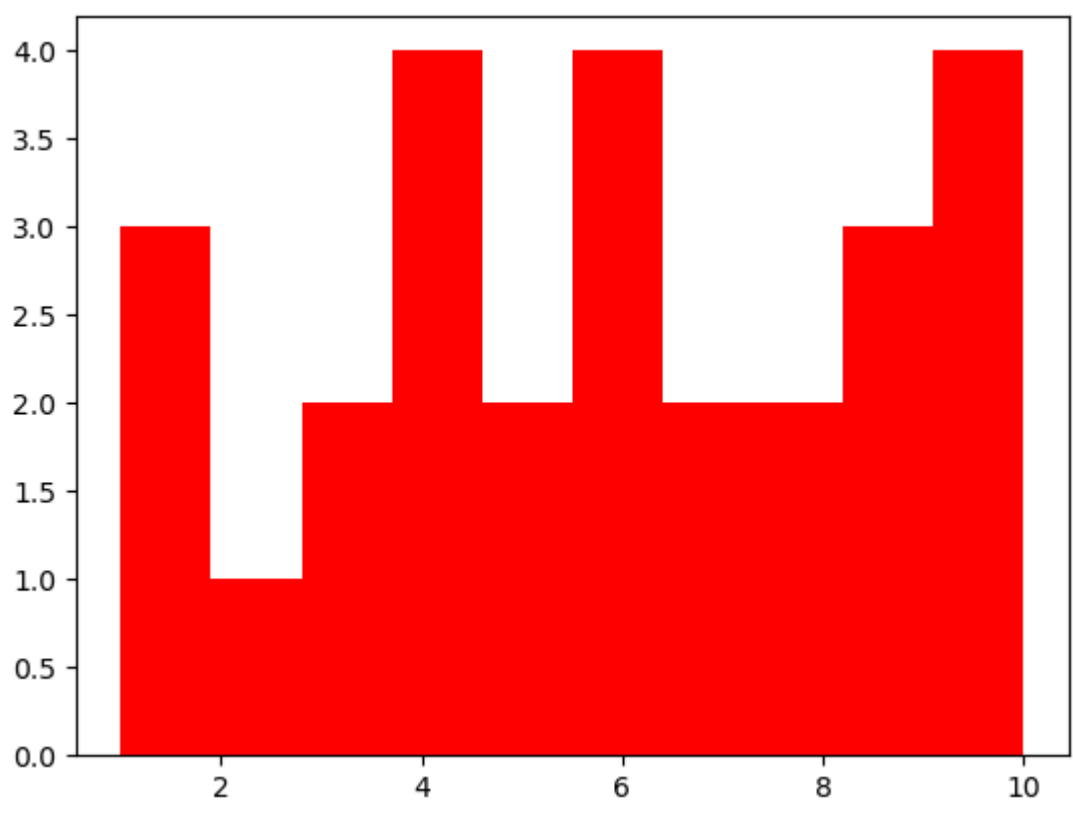
plt.scatter(a,b)
plt.title("Scatter Chart")
plt.xlabel("Height")
plt.ylabel("Weight")
plt.show()
```



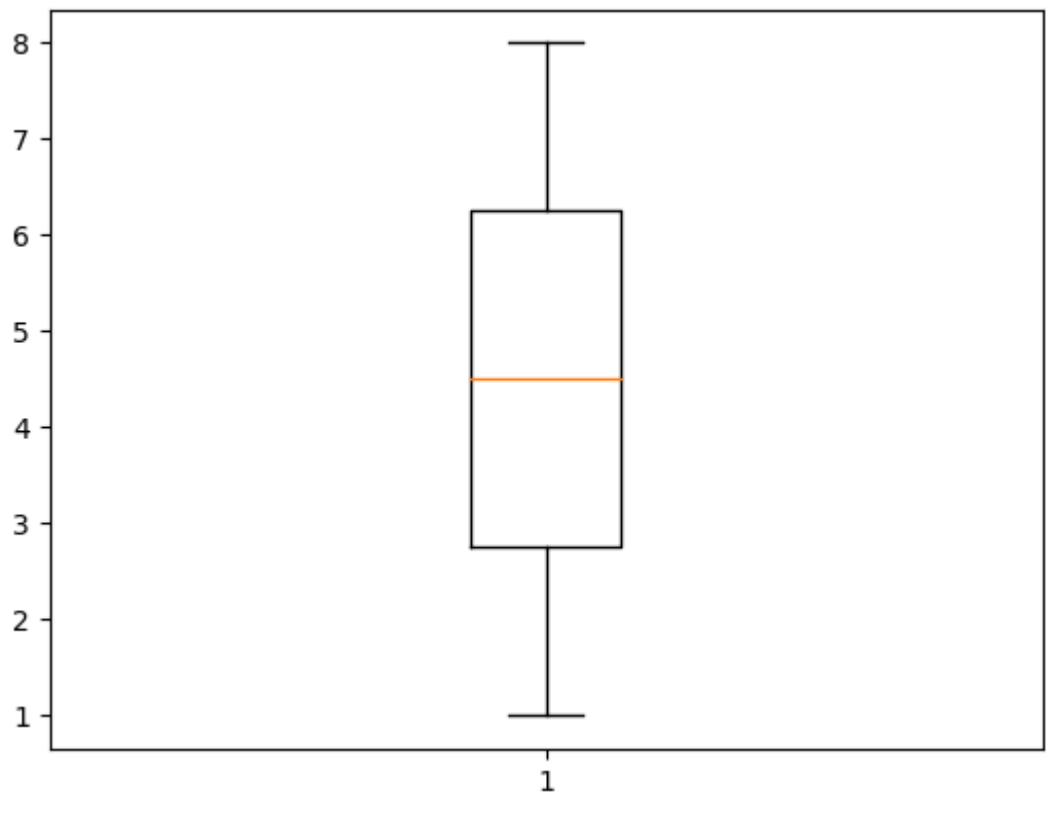
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In [10]: H = [1,1,1,2,3,3,4,5,6,4,4,4,5,6,6,6,7,7,8,8,9,9,9,10,10,10,10]
print(H)

[1, 1, 1, 2, 3, 3, 4, 5, 6, 4, 4, 4, 5, 6, 6, 6, 7, 7, 8, 8, 9, 9, 9, 10, 10, 10, 10]
```

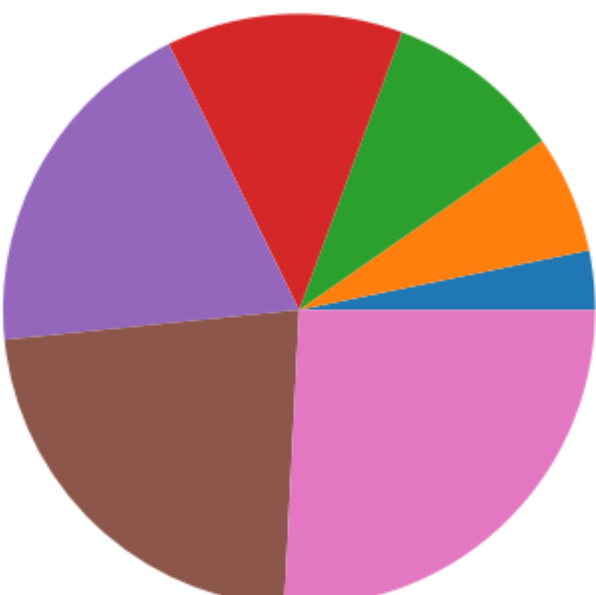
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In [11]: plt.hist(H, color = 'r')
plt.show()
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In [12]: B = [1,2,3,4,5,6,7,8]
plt.boxplot(B)
plt.show()
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In [13]: a = [2,4,6,8,12,14,16]
plt.pie(a)
plt.show()
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In [ ]:
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