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#Exp No : 7

# Aim:To perform data visualization on given data set using
Matplotlib.

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# Sec:C
# Subject : Data Science

a=20
b=30
c=a+b
c
50

a=(1,2,3,"Samruddhi",2.3,True)
type(a)
tuple
len(a)
6
a[1::1]
(2, 3, 'Samruddhi', 2.3, True)
b=[1,2,3,"Samruddhi",2.3,True]
type(b)
list
len(b)
6

import numpy as np
from matplotlib import pyplot as plt

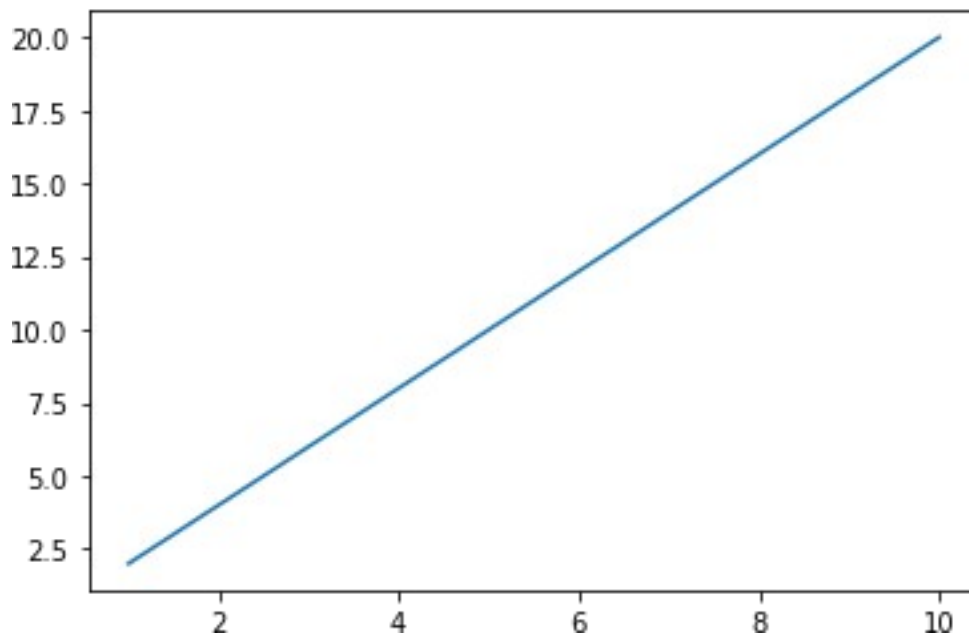
a[0]
1
x=np.arange(1,11)
x
```

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

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

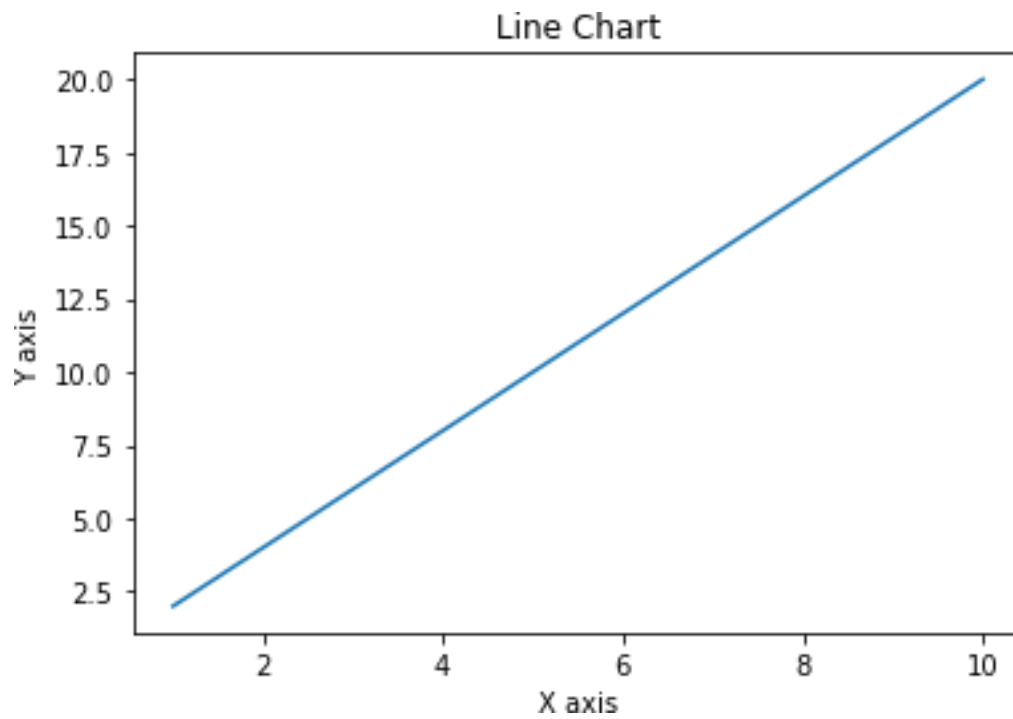
plt.plot(x,y)
plt.show

<function matplotlib.pyplot.show(close=None, block=None)>
```



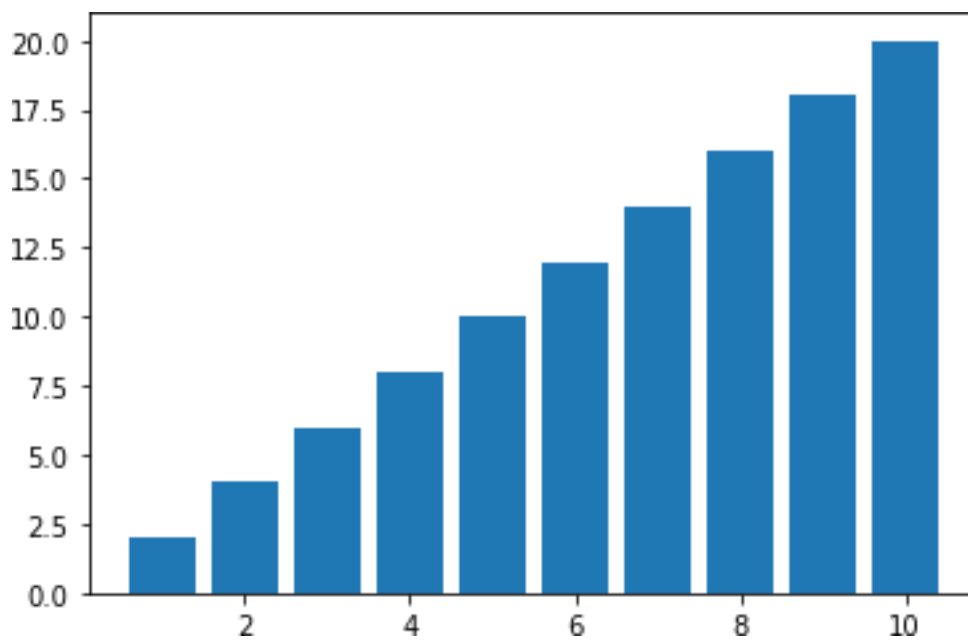
```
plt.plot(x,y)
plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show

<function matplotlib.pyplot.show(close=None, block=None)>
```

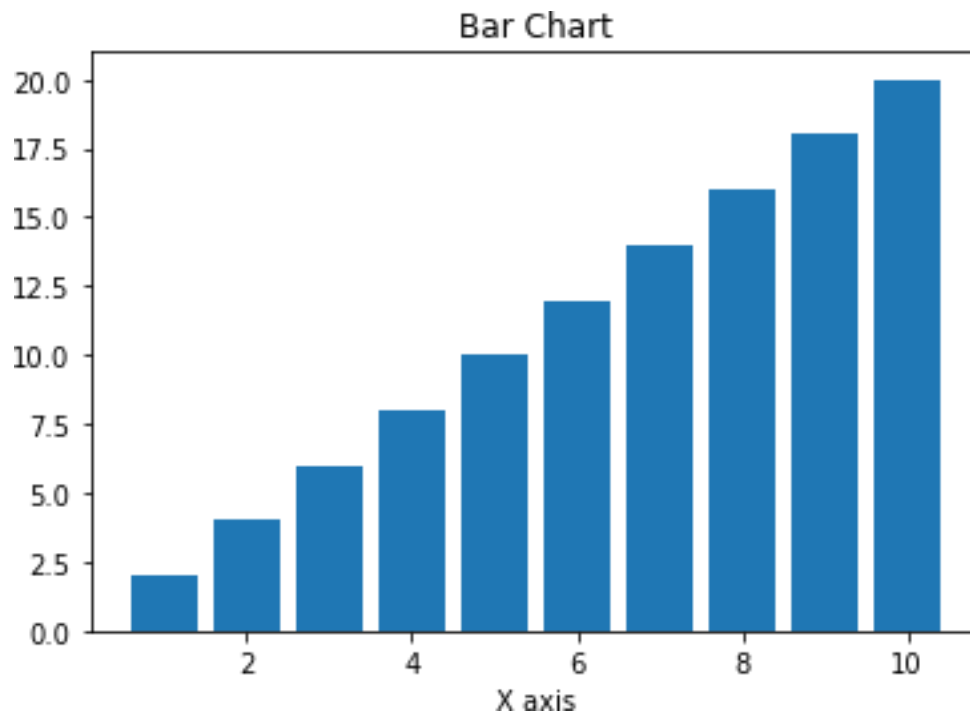


```
plt.bar(x,y)  
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
Text(0.5, 0, 'X axis')
```



```
plt.ylabel("Y axis")
plt.show
<function matplotlib.pyplot.show(close=None, block=None)>
```

