November 1, 2023

1 Data Visusalisation

Experiment no.3 : Data Visualisation

Aim:To perform Data Visualisation

[1]:
```
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#Roll no.: 74
#Sec: B
#Subject: Data Science and Statistics (Lab 1)
```

[2]:
```
a=20
b=30
c=a+b
c
```

[2]:
```
50
```

[3]:
```
a=(1,2,3,"Ashish",2.3,True)
```

[4]:
```
type(a)
```

[4]:
```
tuple
```

[5]:
```
len(a)
```

[5]:
```
6
```

[6]:
```
a[1::1]
```

[6]:
```
(2, 3, 'Ashish', 2.3, True)
```

[7]:
```
b=[1,2,3,"Ashish",2.3,True]
```

[8]:
```
type(b)
```

[8]:
```
list
```

[9]:
```
len(b)
```

[9]:
```
6
```

[10]:
```
import numpy as np
```

[11]:
```
from matplotlib import pyplot as plt
```

[12]:
```
a[0]
```

[12]:
```
1
```

[13]:
```
x=np.arange(1,11)
```

[14]:
```
x
```

[14]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

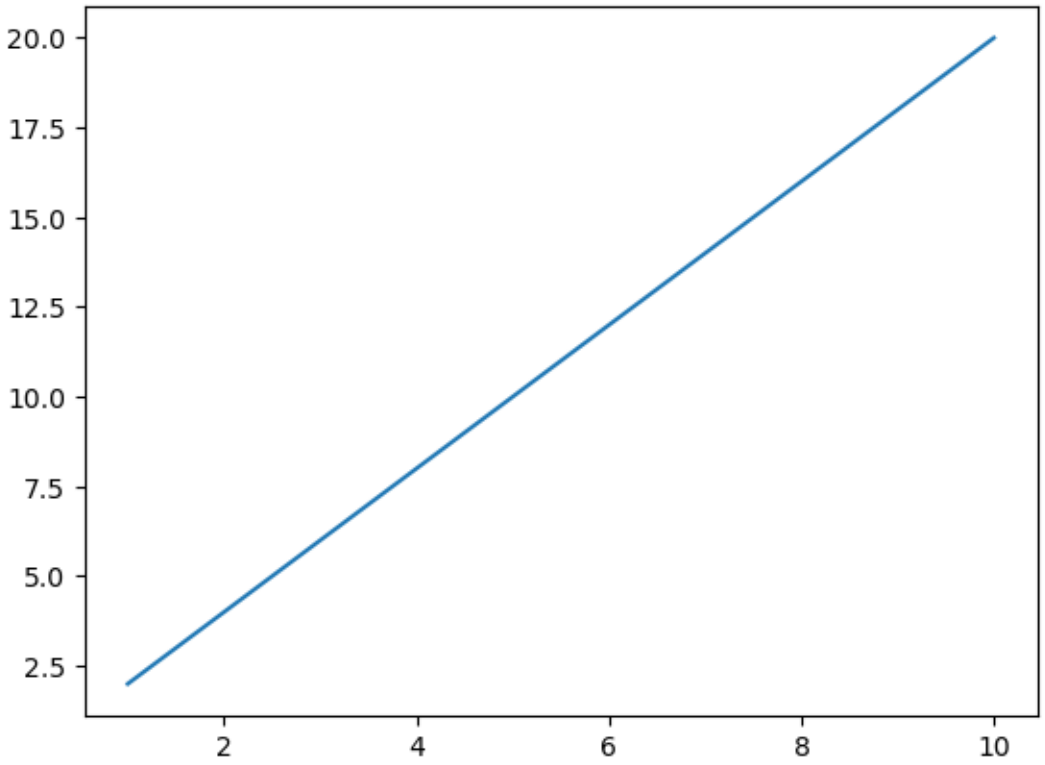
[15]:
```
y=2*x
```

[16]:
```
y
```

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

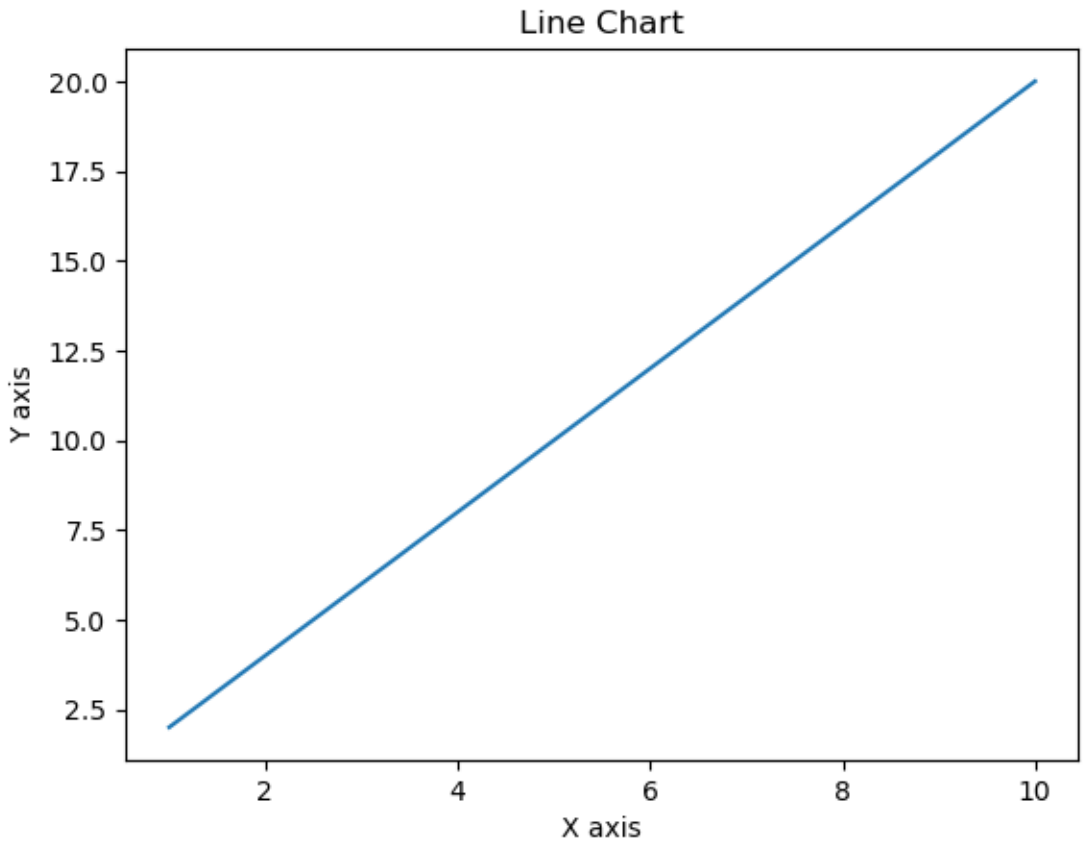
[17]:
```
plt.plot(x,y)
plt.show
```

[17]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



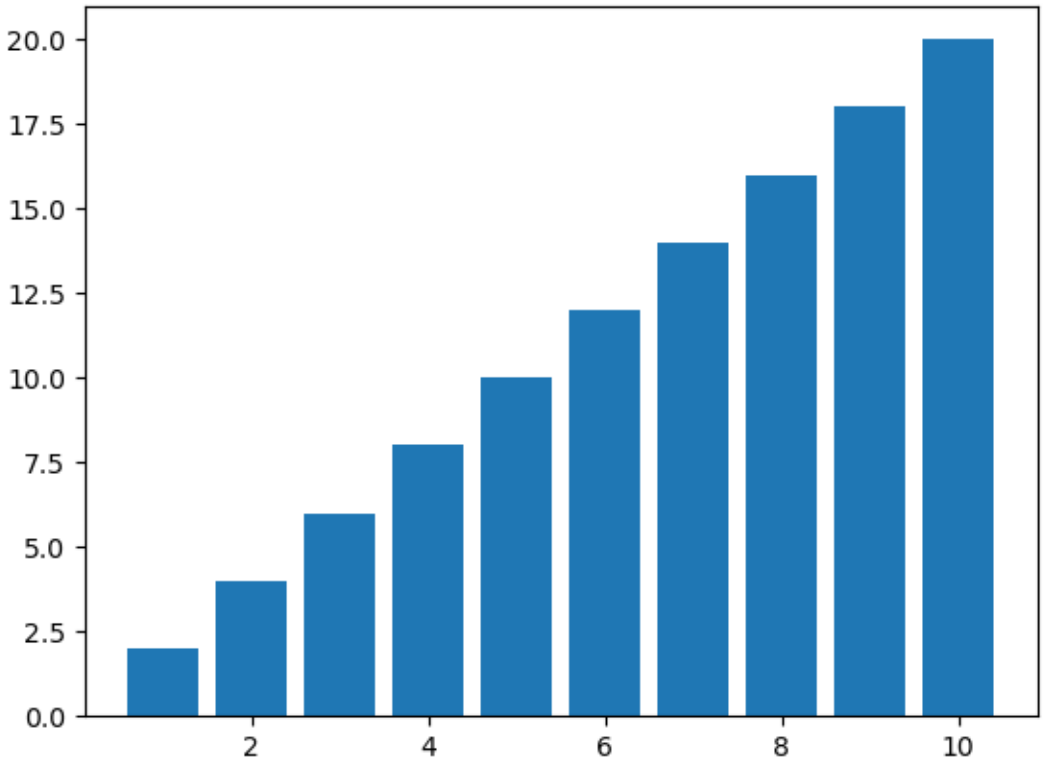
[18]:
```
plt.plot(x,y)

plt.title("Line Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

[18]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



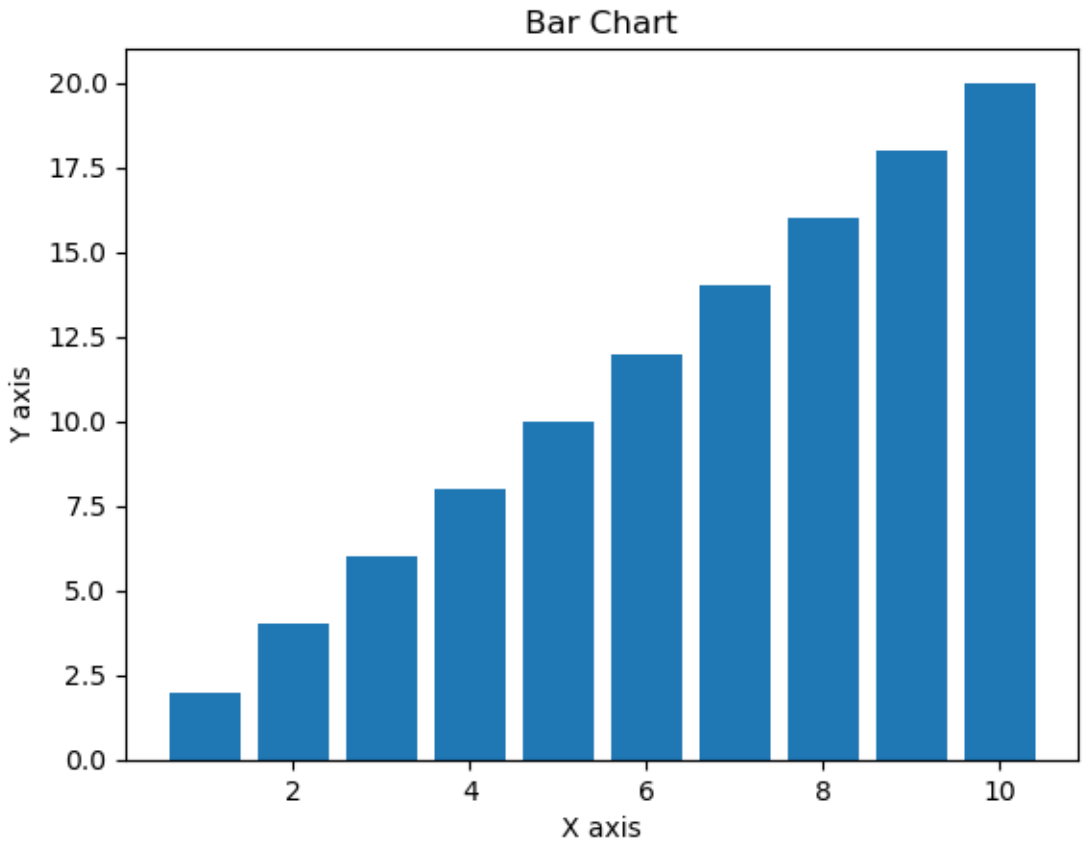
[19]:
```
plt.bar(x,y)
plt.show
```

[19]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



[20]:
```
plt.bar(x,y)
plt.title("Bar Chart")
plt.xlabel("X axis")
plt.ylabel("Y axis")
plt.show
```

[20]: <function matplotlib.pyplot.show(close=None, block=None)>


Bar Chart
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Y axis
2
4
6
8
10
X axis