

In [1]: `#Exp no.:3`

In [2]: `#Aim:To Perform operation of Data visualisation`

In [3]: `#Name:Khushi Bhaisare
#Roll no: 09
#Sec:A
#Subject:Data Science and Statistics
#Date:2/07/2023`

In [4]: `import numpy as np
from matplotlib import pyplot as plt`

In [5]: `x=np.arange(1,11)
print(x)`

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

In [6]: `y=2*x
y`

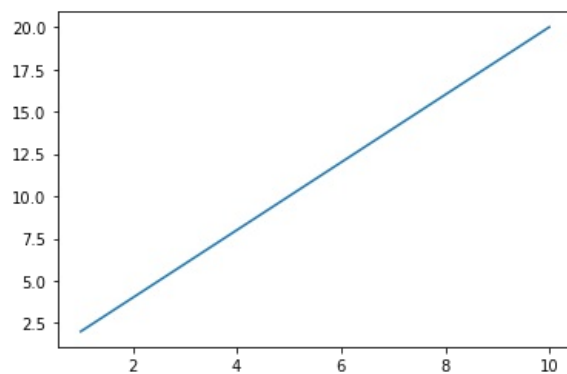
Out[6]: `array([2, 4, 6, 8, 10, 12, 14, 16, 18, 20])`

In [7]: `a=20
b=30
c=a+b
d=b-a
e=a*b
f=b/a
print(c,d,e,f)`

50 10 600 1.5

In [8]: `plt.plot(x,y)
plt.show
type(x)`

Out[8]: `numpy.ndarray`

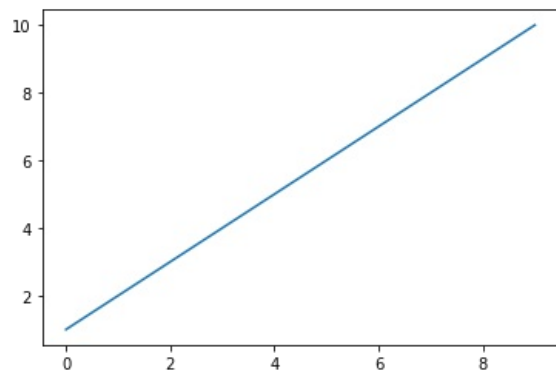


In [9]: `type(y)`

Out[9]: `numpy.ndarray`

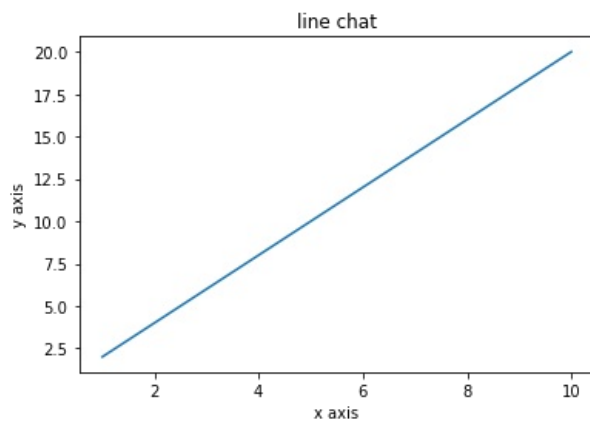
In [10]: `plt.plot(x)
plt.show`

Out[10]: `<function matplotlib.pyplot.show(close=None, block=None)>`



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

```
Out[11]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [12]: student={"vaishnavi":74,"khushi":93,"chaitali":66}
name=list(student.keys())
marks=list(student.values())
name
```

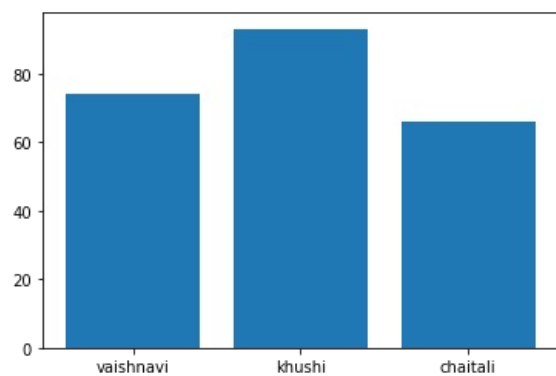
```
Out[12]: ['vaishnavi', 'khushi', 'chaitali']
```

```
In [13]: marks
```

```
Out[13]: [74, 93, 66]
```

```
In [14]: plt.bar(name,marks)
plt.show
```

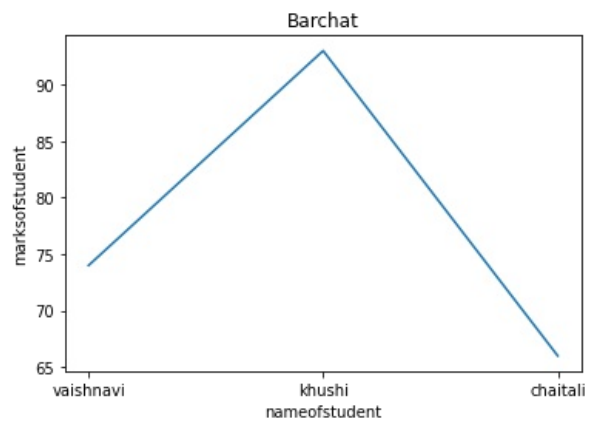
```
Out[14]: <function matplotlib.pyplot.show(close=None, block=None)>
```



In [16]:

```
plt.plot(name,marks)
plt.title("Barchat")
plt.xlabel("nameofstudent")
plt.ylabel("marksofstudent")
plt.show
```

Out[16]: <function matplotlib.pyplot.show(close=None, block=None)>



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