```python
#Exp no.:3
```

```python
#Aim:To Perform operation of Data visualisation
```

```python
#Name:Chaitali Mahlley
#Roll no: 47
#Sec:A
#Subject:Data Science and Statistics
#Date:2/07/2023
```

```python
import numpy as np
from matplotlib import pyplot as plt
```

```python
x=np.arange(1,11)
print(x)
```

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

```python
y=2*x
y
```

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

```python
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
```

```python
plt.plot(x,y)
plt.show
type(x)
```

```
numpy.ndarray
```



```python
type(y)
```

```
numpy.ndarray
```

```python
plt.plot(x)
plt.show
```
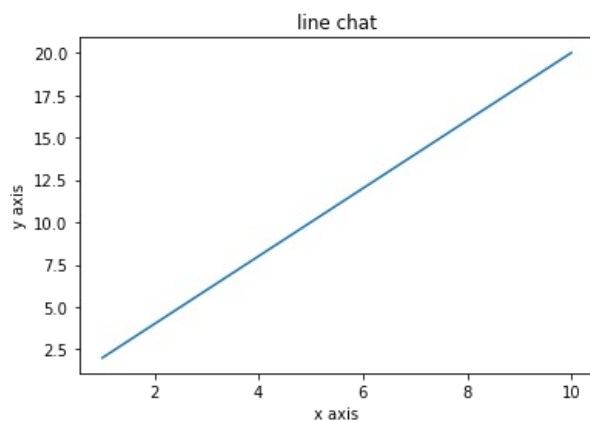
```
<function matplotlib.pyplot.show(close=None, block=None)>
```
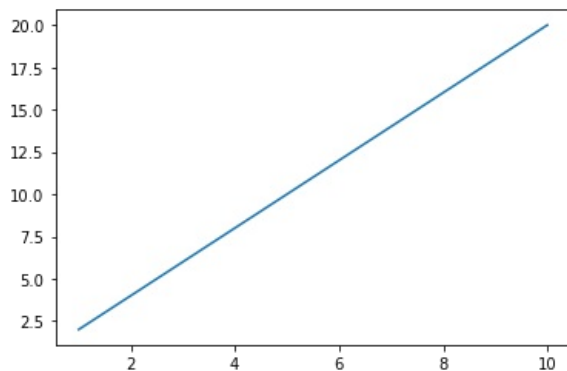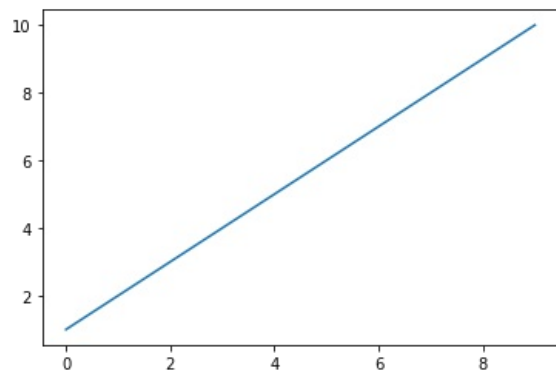
In [11]:
```python
plt.plot(x,y)
plt.title("line chat")
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show
```

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

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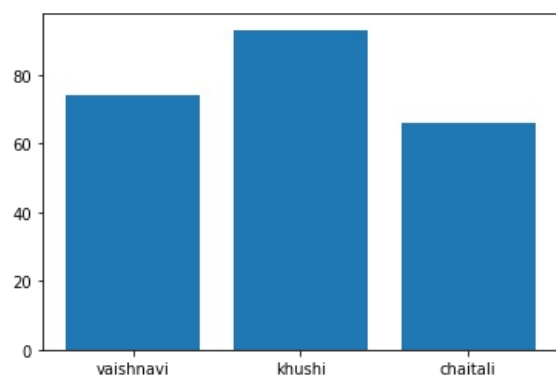
Out[12]: ['vaishnavi', 'khushi', 'chaitali']

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

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

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

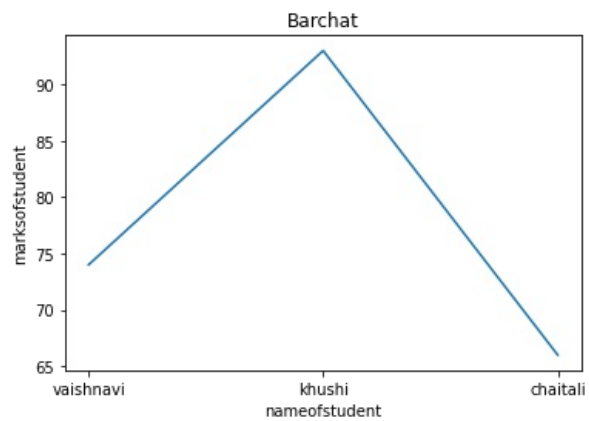Out[14]: <function matplotlib.pyplot.show(close=None, block=None)>

```
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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