

```
In [2]: #Experiment:2
```

```
In [3]: #Aim:CentralTendency Of Measures Mean,Median,Mode
```

```
In [4]: #Name: Sakshi Rambhau Wankhade  
#Roll No: 72  
#Sec: A  
#Subject: ET-1  
#Date:4-08-2025
```

```
In [4]: age=[20,21,22,20,21,21,20,20,22,21,22,21,22,20,20,20,21,22,20]
```

```
In [5]: print(age)
```

```
[20, 21, 22, 20, 21, 21, 20, 20, 22, 21, 22, 21, 22, 20, 20, 20, 21, 22, 20]
```

```
In [6]: age
```

```
Out[6]: [20, 21, 22, 20, 21, 21, 20, 20, 22, 21, 22, 21, 22, 20, 20, 20, 21, 22, 20]
```

```
In [7]: import statistics as stats
```

```
In [8]: a=stats.mean(age)
```

```
In [9]: a
```

```
Out[9]: 20.842105263157894
```

```
In [10]: b=stats.median(age)
```

```
In [11]: b
```

```
Out[11]: 21
```

```
In [12]: c=stats.mode(age)
```

```
In [13]: c
```

```
Out[13]: 20
```

Performing Central Tendency Of Measures Using Numpy

```
In [16]: import numpy as np  
x=np.array([2,5,4,6,2,5,2,5,4,6,2,5,2,5,4,6,2,5,4,7,8,9,1])
```

```
In [17]: x
```

```
Out[17]: array([2, 5, 4, 6, 2, 5, 2, 5, 4, 6, 2, 5, 2, 5, 4, 6, 2, 5, 4, 7, 8, 9, 1])
```

```
In [18]: print(np.mean(x))
```

```
4.391304347826087
```

```
In [20]: print(np.median(x))
```

```
5.0
```

Performing Central Tendency Of Measures Using Scipy #Mode

```
In [21]: from scipy import stats
```

```
In [22]: print(stats.mode(x))
```

```
ModeResult(mode=np.int64(2), count=np.int64(6))
```

Measures Of Dispersion

```
In [23]: print(np.std(x))
```

```
2.0586853220437766
```

```
In [24]: print(np.var(x))
```

```
4.238185255198488
```

```
In [ ]:
```