

```
In [1]: #Exp_2
```

```
In [2]: # Aim :Central Tendancy of Measures Mean,Median Mode
```

```
In [1]: # Name:Dev Sanjay Vaidya  
# Roll no.:69  
# Sec : B  
# Subject:ET1  
# Date:31/07/25
```

```
In [10]: age={21,23,21,22,24,25,21,23,22,21}
```

```
In [11]: age
```

```
Out[11]: {21, 22, 23, 24, 25}
```

```
In [12]: import statistics
```

```
In [13]: a=statistics.mean(age)
```

```
In [14]: a
```

```
Out[14]: 23
```

```
In [15]: b=statistics.median(age)
```

```
In [16]: b
```

```
Out[16]: 23
```

```
In [17]: c=statistics.mode(age)
```

```
In [24]: c
```

```
Out[24]: 21
```

Performing Central Tendancy Of Measure Using Numpy

```
In [13]: import numpy as np  
x=np.array([1,2,3,4,5,6,2,3,5,6])
```

```
In [14]: x
```

```
Out[14]: array([1, 2, 3, 4, 5, 6, 2, 3, 5, 6])
```

```
In [15]: print(np.mean(x))
```

3.7

```
In [16]: print(np.median(x))
```

3.5

Performing Central Tendency Of Measures Using Scipy

```
In [25]: from scipy import stats
```

```
In [26]: print(np.median(x))
```

3.0

```
In [28]: print(np.std(x))
```

1.4937887931959075

```
In [29]: from scipy import stats
```

```
data = [10, 12, 23, 23, 16, 23, 21, 16]
```

```
std_dev = stats.tstd(data)
```

```
print("Standard Deviation:", std_dev)
```

Standard Deviation: 5.237229365663817

```
In [ ]:
```