

```
In [1]: #Exp_2
In [2]: # Aim :Central Tendency 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 Tendency 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 [ ]:
```