In [1]:
```python
#EXP - 3
```

In [2]:
```python
# Aim : Central Tendency of Measures MEAN,MEDIAN,MODE
```

In [3]:
```python
# Name:Anisha Yogendra Mahajan
# Roll no.:34
# sec : A
#Subject:ET1
# Date:04/08/2025
```

In [4]:
```python
age=[22,21,20,22,20,23,24,23,25]
```

In [5]:
```python
age
```

Out[5]: [22, 21, 20, 22, 20, 23, 24, 23, 25]

In [6]:
```python
import statistics as st
```

In [7]:
```python
a=st.mean(age)
```

In [8]:
```python
a
```

Out[8]: 22.22222222222222

In [9]:
```python
b=st.median(age)
```

In [10]:
```python
b
```

Out[10]: 22

In [11]:
```python
c=st.mode(age)
```

In [12]:
```python
c
```

Out[12]: 22

In [13]:
```python
#performing central tendancy od measure using numpy
import numpy as np
x=np.array([1,2,3,4,5,6,2,3,5,6])
```

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

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

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

3.7

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

3.5

In [17]:
```python
#performing central tendancy of measures using scipy
from scipy import stats
```

In [18]:
```python
print(stats.mode(x))
```

ModeResult(mode=array([2]), count=array([2]))

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

1.676305461424021

In [21]:
```python
print(np.var(x))
```

2.81

In [ ]: