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

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

In [3]:
```
# Name: Payal Devanand Manwar
# Roll no.:37
# sec : A
#Subject:ET1
# Date:04/08/2025
```

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

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

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

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

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

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

Out[8]:
```
22.22222222222222
```

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

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

Out[10]:
```
22
```

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

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

Out[12]:
```
22
```

In [13]:
```
#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]:
```
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
```

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

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

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

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

```
1.676305461424021
```

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

```
2.81
```

In [ ]: