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# Experiment no. 2 , 5

# Aim: to perform central tendency of mean median and measure

#Name = Agink Shriram chiple

# Roll no. = 03
#Sec = c
#Subject = ET 1
#Date = 01-08-2025

age=[22,21,20,20,21,21,21,21,20,20,22,20,22,21,22,22,22,22,22]

age

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

print(age)

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

import statistics as st

a = st.mean(age)

a

21.157894736842106

b = st.median(age)

b

21

c = st.mode(age)

c

22

import numpy as np
x = np.array ([1,2,3,4,5,6,7,2,6,2,1,4,2,2,6])

x

array([1, 2, 3, 4, 5, 6, 7, 2, 6, 2, 1, 4, 2, 2, 6])

print(np.mean(x))

3.533333333333333

print(np.median(x))

```

3.0

print(np.mode(x)) //it gierror numpy has no attribute mode

```
from scipy import stats
print(stats.mode(x))

ModeResult(mode=np.int64(2), count=np.int64(5))

print(np.std(x))
1.9618585292749546

print(np.var(x))
3.848888888888884
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