Experiment - 1

Descriptive Statistics

Problem-1

Aim :-

To find the mean median and mode of the following data using R Studio.

Data :-

age = c (18, rep(19,4), rep(20,5), rep(21,4), 22, 23, 24, 27, 30, 36)

a) Syntax

Mean :-
mean(age)

Median :-
median (age)

Output

Mean :- 22
Median :- 20.5

Conclusion :- The mean and median of given data is 22 and 20.5 respectively.

b) Syntax:

Median age under 25

median (age [age<25])

output

Median - 20

Conclusion :- The median of students under the age 25 is 20

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c) Syntax

```
> xr = table(age)
> mode = which (xr == max(xr))
> mode
```

output

mode - 20

Conclusion - The mode of the above data is 20

Problem-2

Aim find the mean and median of the following ungrouped data

5 Data :

```
X = c(0,1,2,3)
f = c(8,11,5,1)
y = rep(x,f)
```

10

mean :-

Syntax:
mean:
> mean = (sum(y))/(length(y))
> mean

Output: mean = 0.96

20 Median
> median(y)

Output

25 Median = 1

Conclusion The mean and median of the following data was
found to be 0.96 and 1 respectively.