

EXPERIMENT-1 :CENTRAL TENDENCY AND DISPERSION

MEASURES

CODE:

```
data=read.csv("vinu.csv")
```

```
View(data)
```

```
mean(data$marks)
```

```
median(data$marks)
```

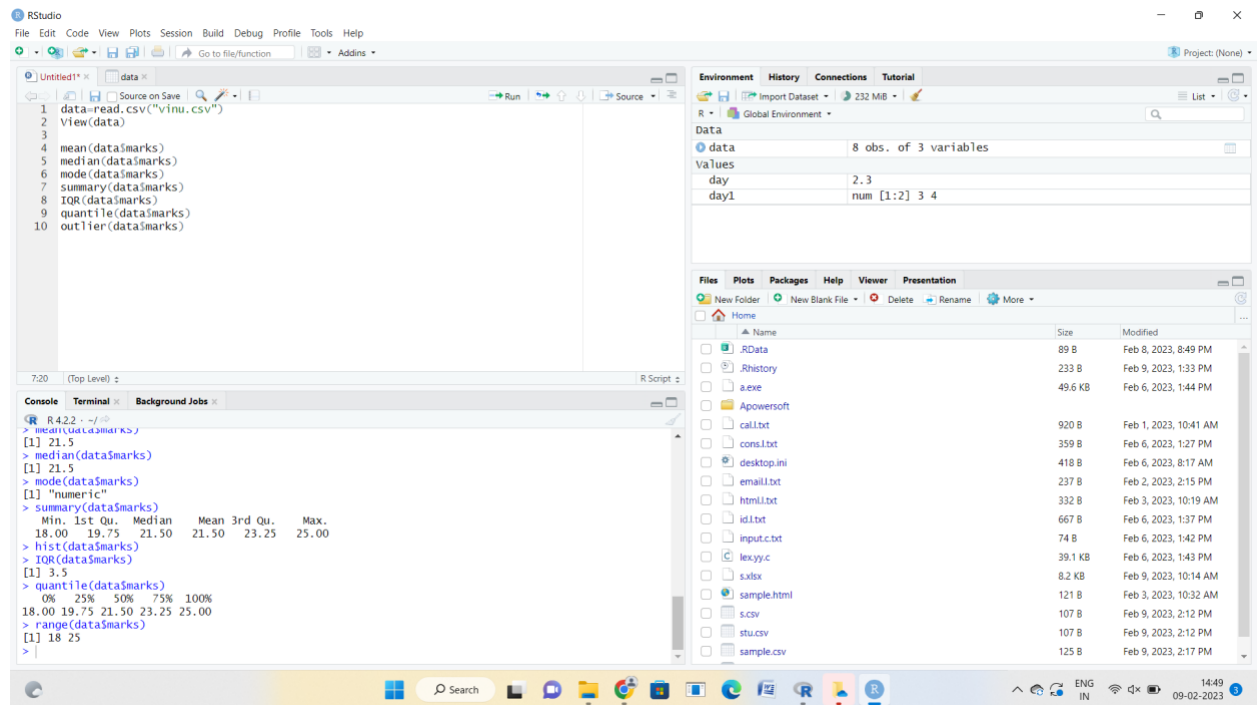
```
mode(data$marks)
```

```
summary(data$marks)
```

```
IQR(data$marks)
```

```
quantile(data$marks)
```

OUTPUT:



The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains the R script code:

```
1 data=read.csv("vinu.csv")
2 View(data)
3
4 mean(data$marks)
5 median(data$marks)
6 mode(data$marks)
7 summary(data$marks)
8 IQR(data$marks)
9 quantile(data$marks)
10 outlier(data$marks)
```
- Environment:** Shows the 'data' object with 8 observations and 3 variables (day, num, day1).
- Files:** A file explorer showing the project directory structure.
- Console:** Displays the output of the executed code:

```
R 4.2.2 > read.csv("vinu.csv")
[1] 21.5
R 4.2.2 > median(data$marks)
[1] 21.5
R 4.2.2 > mode(data$marks)
[1] "numeric"
R 4.2.2 > summary(data$marks)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
18.00  19.75   21.50   21.50  23.25   25.00
R 4.2.2 > IQR(data$marks)
[1] 3.5
R 4.2.2 > quantile(data$marks)
  0%  25%  50%  75% 100%
18.00 19.75 21.50 23.25 25.00
R 4.2.2 > range(data$marks)
[1] 18 25
R 4.2.2 >
```