


```

            8.96,
            8.66,
            8.66,
            8.363,
            8.08,
            8.23,
            8.02
        ),
        Total_HS_Marks = c(442,
            429,
            359,
            389,
            452,
            336,
            563,
            452,
            452,
            459,
            452,
            456,
            456,
            433,
            452,
            399
        ),
        Math_HS_Marks = c(96,
            91,
            92,
            91,
            99,
            99,
            96,
            85,
            85,
            56,
            86,
            86,
            96,
            96,
            96,
            87
        ),
        Computer_Science_HS_Marks= c(98,
            90,
            94,
            99,
            88,
            85,
            85,
            100,

```

```

100,
85,
96,
96,
96,
96,
100,
93
)
)

```

#Print the data frame

```
print(data)
```

```

##              Name Roll_no. First_Sem_Marks Total_HS_Marks
Math_HS_Marks
## 1 Suprodip Charkarborty      301           8.770         442
96
## 2           Anubhab Roy      302           8.850         429
91
## 3           Sohan Chakravartty 303           8.310         359
92
## 4           Bapon Ghosh      304           8.010         389
91
## 5           Ritam Das        326           8.150         452
99
## 6           Suman Chandra Mondal 351           8.550         336
99
## 7           Shuvadip Das      309           8.220         563
96
## 8           Sohel Munshi      358           8.660         452
85
## 9           Kiranmay Dolui     322           8.220         452
85
## 10          Sudipta Manna      308           8.960         459
56
## 11          Arnab Ghose       334           8.660         452
86
## 12          Manas Mondal      311           8.660         456
86
## 13          MD Frioj Molla     343           8.363         456
96
## 14          Sumit Sing        347           8.080         433
96
## 15          Raktim Day        356           8.230         452
96
## 16          Rajdip Banerjee    316           8.020         399
87
##           Computer_Science_HS_Marks
## 1                               98

```

```

## 2          90
## 3          94
## 4          99
## 5          88
## 6          85
## 7          85
## 8         100
## 9         100
## 10         85
## 11         96
## 12         96
## 13         96
## 14         96
## 15        100
## 16         93

x1 <- data$First_Sem_Marks
x2 <- data$Total_HS_Marks
x3 <- data$Math_HS_Marks
x4 <- data$Computer_Science_HS_Marks
#Summary statistic
summary(data$First_Sem_Marks)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   8.010   8.203   8.336   8.420   8.660   8.960

summary(data$Total_HS_Marks)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   336.0   421.5   452.0   436.3   453.0   563.0

summary(data$Math_HS_Marks)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   56.00   86.00   91.50   89.81   96.00   99.00

summary(data$Computer_Science_HS_Marks)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   85.00   89.50   96.00   93.81   98.25  100.00

fn_mode <- function(x){
  unique_x <- unique(x)
  tabulate_x <- tabulate(match(x, unique_x))
  unique_x[tabulate_x == max(tabulate_x)]
}
fn_mode(x1)

## [1] 8.66

fn_mode(x2)

```

```
## [1] 452
```

```
fn_mode(x3)
```

```
## [1] 96
```

```
fn_mode(x4)
```

```
## [1] 96
```

```
data[16,]
```

```
##           Name Roll_no. First_Sem_Marks Total_HS_Marks Math_HS_Marks
## 16 Rajdip Banerjee      316           8.02           399           87
##      Computer_Science_HS_Marks
## 16                             93
```