FML Assignment 1

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```
data_source<-"https:/www.kaggle.com/datasets/saketk511/travel-dataset-guide-to-indias-must-see-places?r
```

```
library(readxl)
```

```
file_path <- "C:/Users/hp/Desktop/assignent/Top Indian Places to Visit.xlsx"
```

```
Top_Indian_Places_to_Visit <- read_excel(file_path)
```

```
## New names:
## * `` -> `...1`
```

#Descriptive Statistics for Categorical Variables

```
Category.Variable<-c("Zone","State","City","Name","Type","Airport with 50km Radius","Weekly Off","Signi
```

```
summary(Top_Indian_Places_to_Visit[Category.Variable])
```

```
##      Zone              State               City              Name
##  Length:325         Length:325         Length:325         Length:325
##  Class :character   Class :character   Class :character   Class :character
##  Mode  :character   Mode  :character   Mode  :character   Mode  :character
##      Type           Airport with 50km Radius  Weekly Off
##  Length:325         Length:325                Length:325
##  Class :character   Class :character          Class :character
##  Mode  :character   Mode  :character          Mode  :character
##  Significance       DSLR Allowed       Best Time to visit
##  Length:325         Length:325         Length:325
##  Class :character   Class :character   Class :character
##  Mode  :character   Mode  :character   Mode  :character
```

```
table(Top_Indian_Places_to_Visit$Significance)
```

```
##
##          Adventure       Agricultural     Archaeological      Architectural
##                  5                  1                  1                  4
##           Artistic          Botanical           Cultural        Educational
##                  2                  3                 13                  2
## Engineering Marvel      Entertainment      Environmental               Food
##                  1                  5                  2                  1
##         Historical             Market     Natural Wonder             Nature
##                 78                  1                  2                 47
##       Recreational          Religious             Scenic         Scientific
##                 30                 75                 10                  2
##           Shopping          Spiritual             Sports           Trekking
##                  7                  1                  2                  1
##           Wildlife
```

```
##                  29
```

#Descriptive Statistics for Quantitative Variables

```
Quantitative.Variable<-c("time needed to visit in hrs","Google review rating","Entrance Fee in INR","Nu
```

```
summary(Top_Indian_Places_to_Visit[Quantitative.Variable])
```

```
##  time needed to visit in hrs Google review rating Entrance Fee in INR
##  Min.   :0.500               Min.   :1.400        Min.   :   0.0
##  1st Qu.:1.000               1st Qu.:4.400        1st Qu.:   0.0
##  Median :1.500               Median :4.500        Median :   0.0
##  Mean   :1.808               Mean   :4.486        Mean   : 115.8
##  3rd Qu.:2.000               3rd Qu.:4.600        3rd Qu.:  40.0
##  Max.   :7.000               Max.   :4.900        Max.   :7500.0
##  Number of google review in lakhs
##  Min.   :0.0100
##  1st Qu.:0.0590
##  Median :0.1700
##  Mean   :0.4084
##  3rd Qu.:0.5000
##  Max.   :7.4000
```

#Transformation of a variable(Transforming the class of variable i.e Entrance Fee in INR from numerical to character)

```
class(Top_Indian_Places_to_Visit$`Entrance Fee in INR`)
```

```
## [1] "numeric"
```

```
Top_Indian_Places_to_Visit$`Entrance Fee in INR`<-as.character(Top_Indian_Places_to_Visit$`Entrance Fee
```

```
class(Top_Indian_Places_to_Visit$`Entrance Fee in INR`)
```

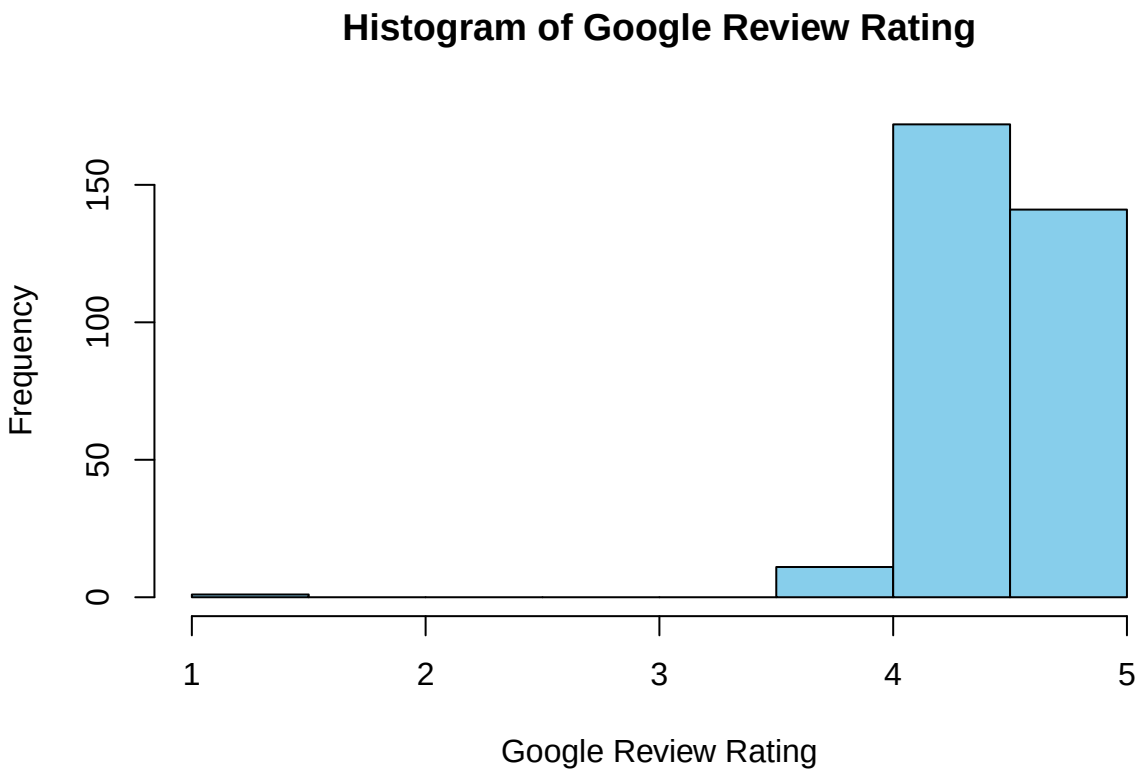
```
## [1] "character"
```

```
sapply(Top_Indian_Places_to_Visit,class)
```

```
##                             ...1                             Zone
##                        "numeric"                      "character"
##                            State                             City
##                      "character"                      "character"
##                             Name                             Type
##                      "character"                      "character"
##      time needed to visit in hrs             Google review rating
##                        "numeric"                        "numeric"
##              Entrance Fee in INR         Airport with 50km Radius
##                      "character"                      "character"
##                       Weekly Off                     Significance
##                      "character"                      "character"
##                     DSLR Allowed Number of google review in lakhs
##                      "character"                        "numeric"
##               Best Time to visit
##                      "character"
```

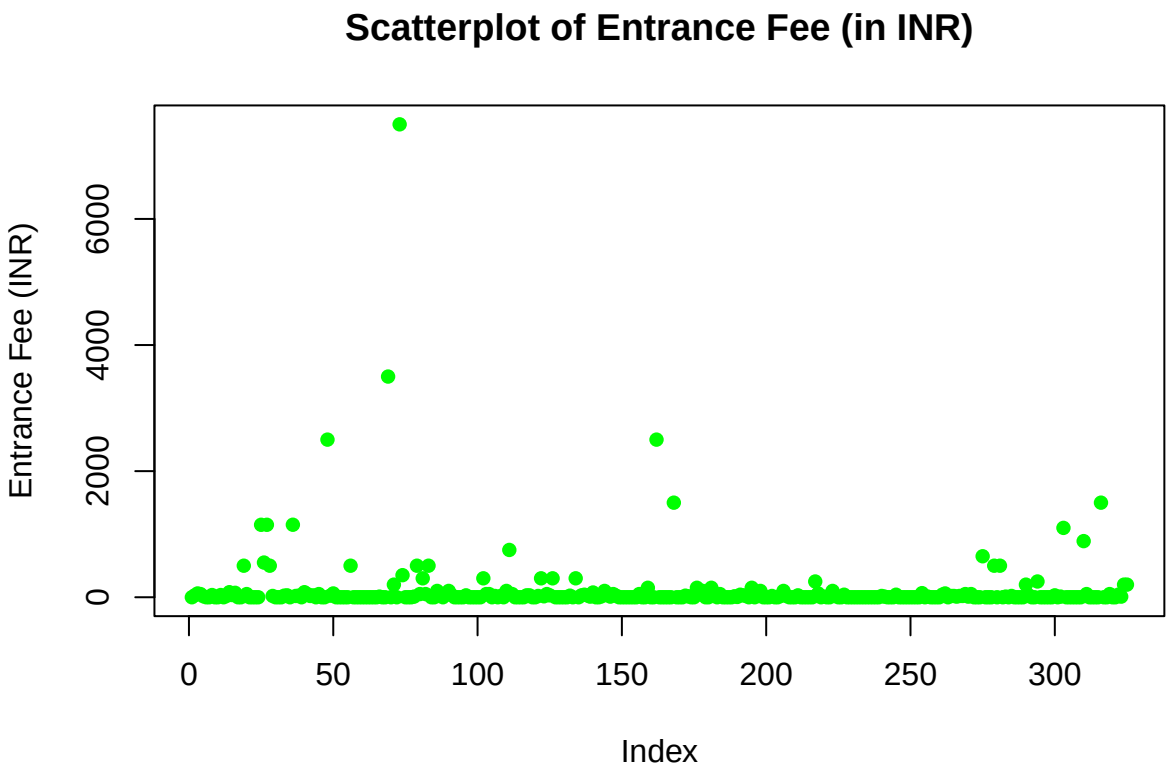
#Histogram of Google Review Rating

```
hist(Top_Indian_Places_to_Visit$`Google review rating`, main = "Histogram of Google Review Rating", xla
```



#Scatterplot of Google Review Rating vs Entrance Fee

```
plot(Top_Indian_Places_to_Visit$`Entrance Fee in INR`,main = "Scatterplot of Entrance Fee (in INR)",xlab
```


Scatterplot of Entrance Fee (in INR)
Entrance Fee (INR)
0
2000
4000
6000
0
50
100
150
200
250
300
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