# R PROGRAMMING & MATLAB LAB

(ACADEMIC YEAR : 2017-2018)

I SEMESTER

## ASSIGNMENT 2

## TOPIC : GRAPHICAL ANALYSIS USING R


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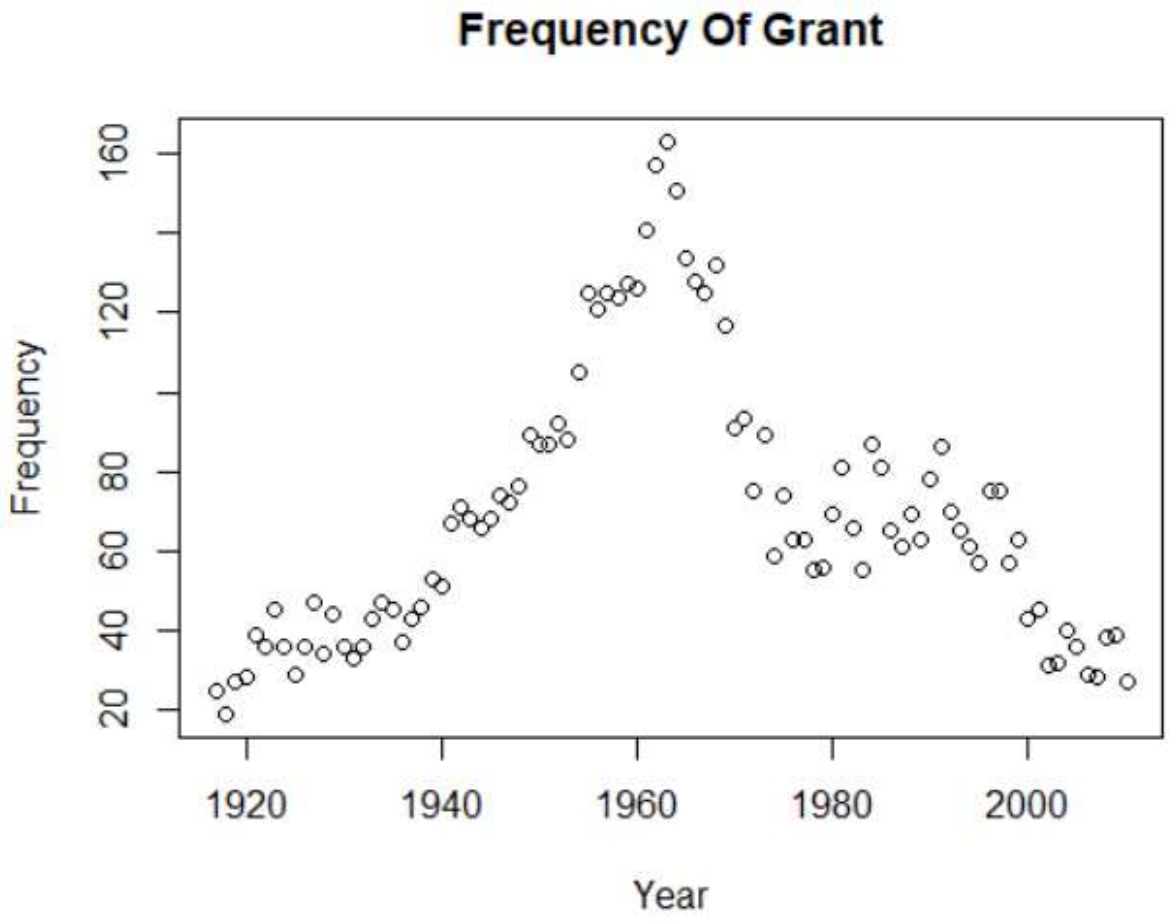
# Graphical Analysis Using R

1. **Import the dataset (male_names.csv) and find the frequency of name "GRANT" using visualization. Make use of all possible arguments in the function you use (For example: xlab, ylab, main, type etc)**

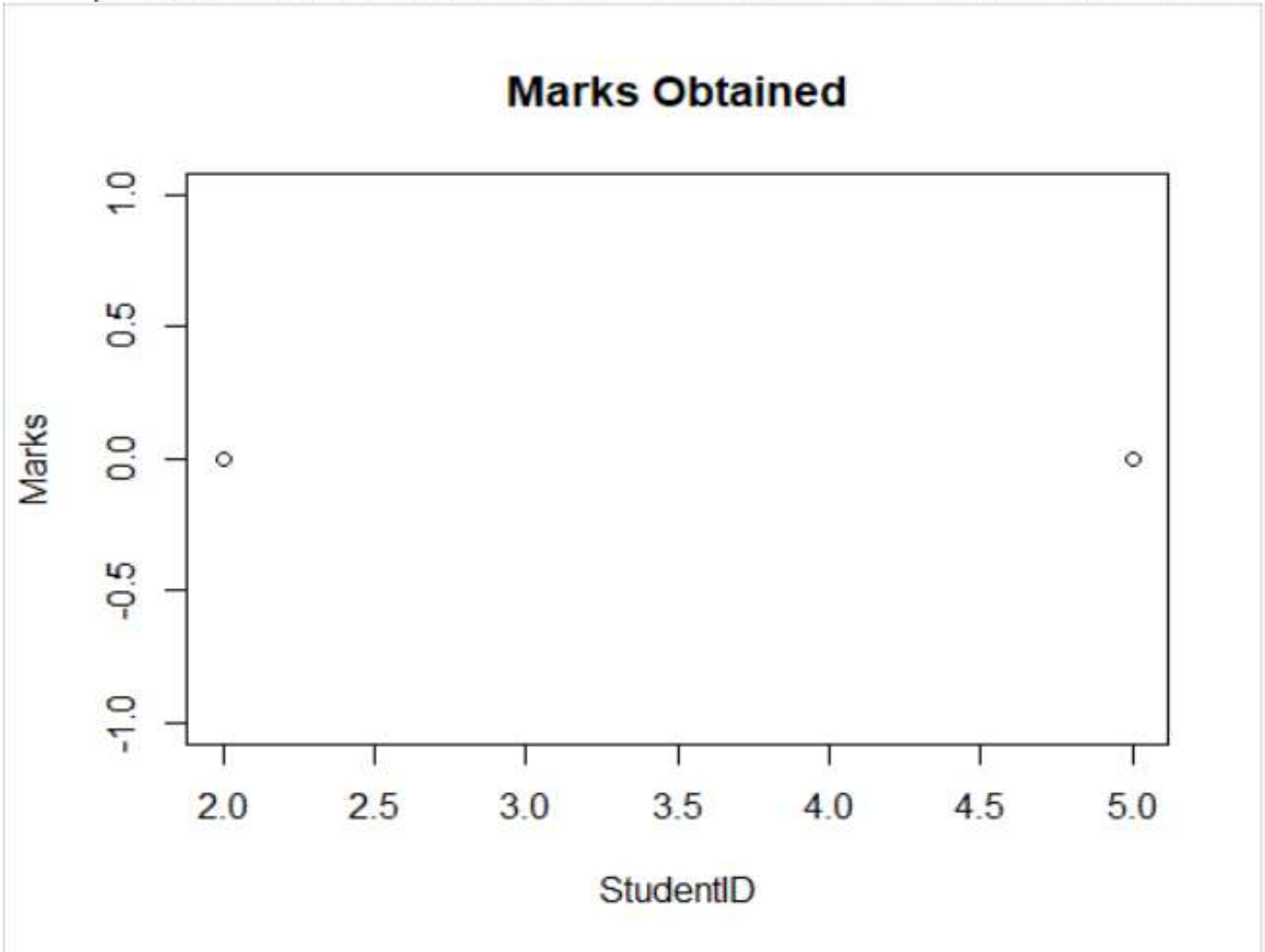
```
> g_names <- m_names[m_names$Name=='GRANT',]
> plot(g_names$Year,g_names$Frequency,main='Frequency Of Grant',xlab='Year',ylab='Frequency')
```




2. **Import student dataset (StudentsMarks.csv) , by graphical analysis find out which student has got zero mark in one of the subjects.**

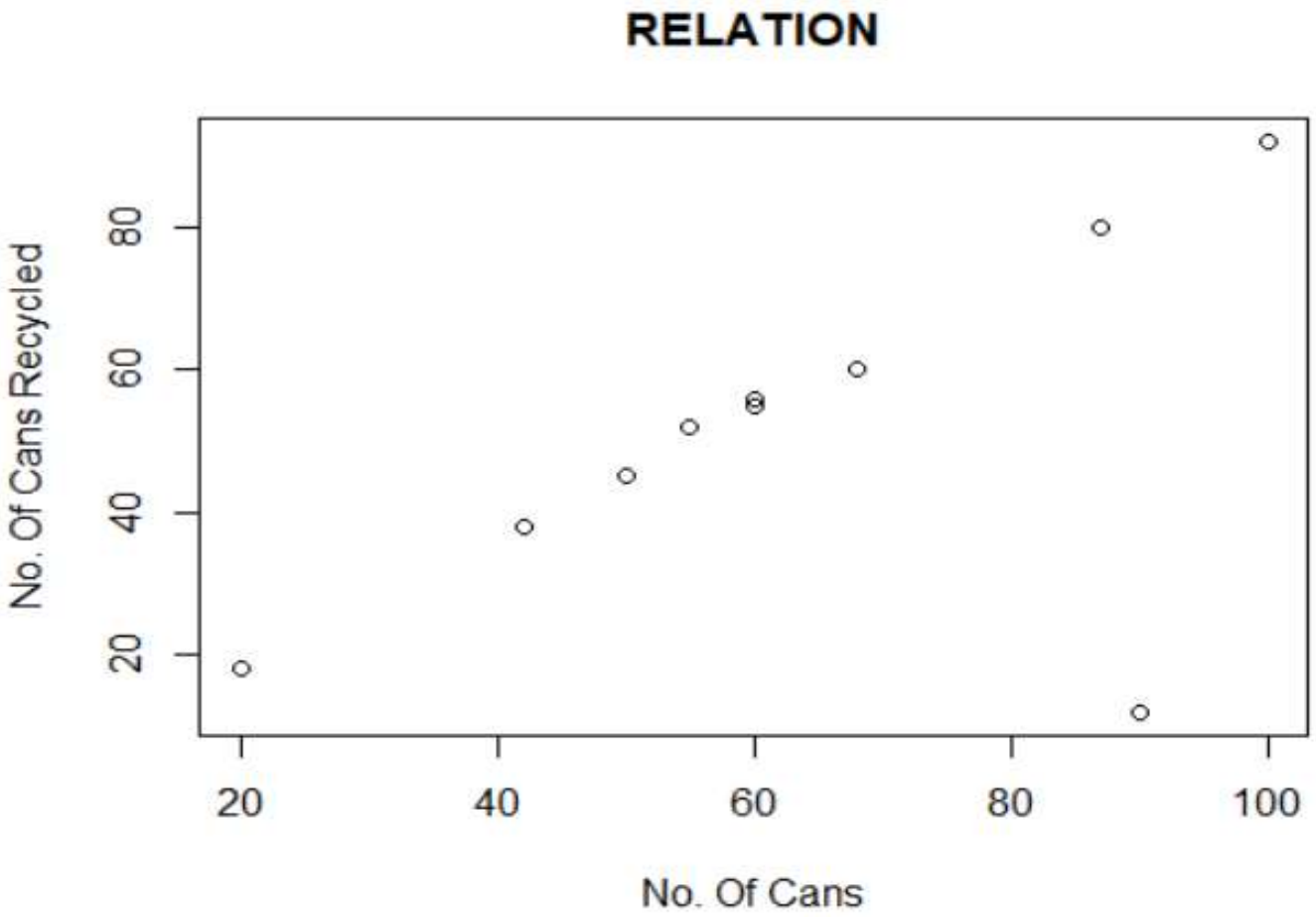
```
> ss_marks <- s_marks[s_marks$Marks==0]
```

```
plot(ss_marks$Student_ID,ss_marks$Marks,main = "Marks Obtained",xlab = "StudentID",ylab = "Marks")
```




3. **Import Environment data. Make a well labeled graph to see a relation between the variables.**

```
> envm <- read.csv("G:/rassh/mtech/stats/Graphical/Environment.csv",header = TRUE)
> envm
   Number_Of_cans_Sold Number_Of_Cans_Recycled
1                   60                      55
2                   87                      80
3                   55                      52
4                   20                      18
5                  100                      92
6                   42                      38
7                   68                      60
8                   90                      12
9                   50                      45
10                  60                      56
> plot(envm$Number_Of_cans_Sold,envm$Number_Of_Cans_Recycled, main = "RELATION", xlab = "No. Of Cans",ylab = "No. Of Cans
 Recycled")
>
```



4. **Import Climate data and visualize the parameters from col4 to col8 and explain your reasoning.**
   **OUTPUT**

```
> Climate <- read.table("G:/rassh/mtech/stats/Graphical/Climate.txt",header = TRUE)
> pairs(Climate[4:8])
```