ASSIGNMENT 6.1.a

Problem Statement

1. Import the Titanic Dataset from the following link: https://drive.google.com/file/d/1JTJCjdGuUxzKXYlwOavwovB01k6FWg3r/view?ts=5b42ea10

Perform the below operations:

a. Pre-process the passenger names to come up with a list of titles that represent families and represent using appropriate visualization graph.

Answer:

Step1: Reading the 'titanic.csv' file into R

Step 2: Creating a function to find the "," after each title and substr() function usage to pluck the titles.

```
getTitle<- function(x){
  if(str_detect(x, ",")== T){
    cPtr<- str_locate(x,",")
    titleName<- substr(x,1,cPtr-1)
  return(titleName)
  }
}</pre>
```

Step 3: Creating data frame and using the user defined function with only title names, and also counting the title names. All the below code are under the mainFunc()

Step 4: To create visualization of the family title and the count. The below code is also under the mainFunc()

mCnt<- max(ttlCnt[,2])+1

plot(ttlCnt,type="p",main="Family Title and Count Representation", ylab="No. of Family members",
 xlab="Family Title", ylim=c(0,mCnt))</pre>

 $\textbf{Step 5:} \ \textbf{To look for the family titles and the count, call the } \textbf{ttlCnt variable}$

Output:



Note: R script is attached in the repository.