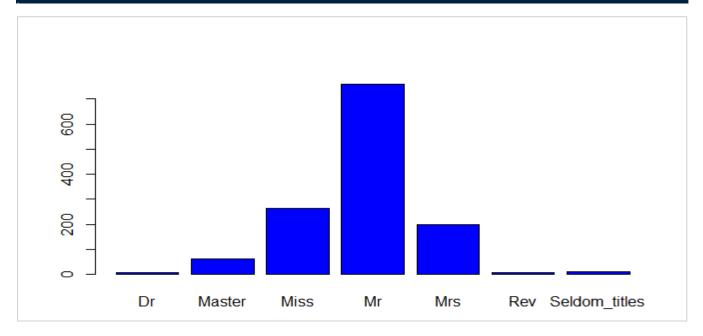
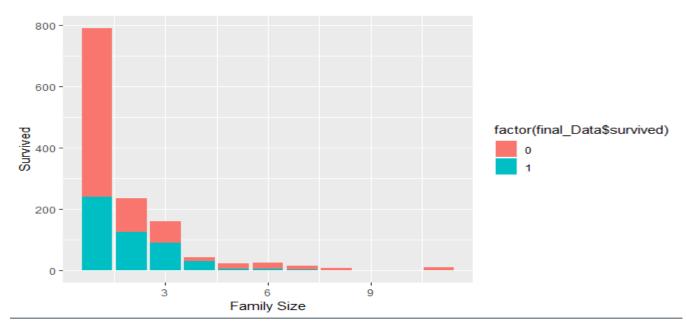
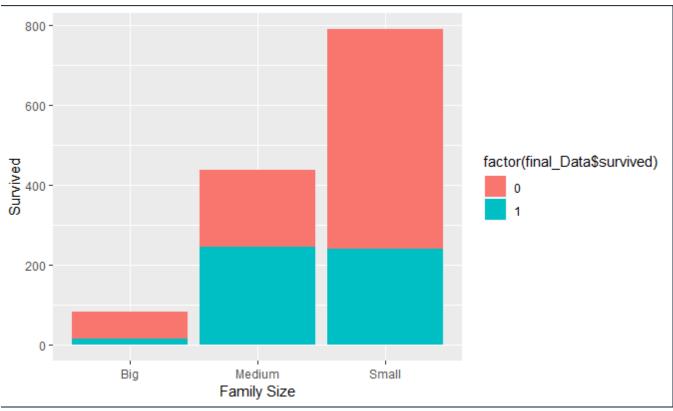
## Code

```
### Apport the Irianic DataSet from the Irianic Data Set.
### Option of Control of Contr
```



```
> #b. Represent the proportion of people survived from the family size using a graph.
> final_Data$famSize <- final_Data$famSize)
1 2 3 4 5 6 7 8 11
790 235 159 43 22 25 16 8 11
> par(mfrow = c(1,2))
> ggplot(final_Data$famSize, fill = factor(final_Data$survived))) +
+ geom_bar(stat = 'count') + labs(x = 'Family Size') + labs(y = 'Survived')
> ## to have a better view of this analysis, we group family sizes and assign category
> famCat = array(dim = length(final_Data$famSize))
> famCat[final_Data$famSize >= 1] = 'Small'
> famCat[final_Data$famSize >= 2 & final_Data$famSize <= 4] = 'Medium'
> famCat[final_Data$famSize > 4] = 'Big'
> final_Data$famSize < as.factor(famCat)
> # plot grouped data
> ggplot(final_Data,aes(x= final_Data$famSize1, fill = factor(final_Data$survived))) +
+ geom_bar(stat = 'count') + labs(x = 'Family Size') + labs(y = 'Survived')
> */ **
```





```
per. Impute the missing values in Age variable using Mice Library, create two different graphs showing Age distribution before and after imputation.
> library(mice)
Loading required package: lattice
Attaching package: 'mice'
The following objects are masked from 'package:base':
    chind, rbind
> set. seed(8)
> df. impute <= final_Data[.names(final_Data) Xirk c('age', 'sibsp', 'parch', 'fare')]
> meanimpute <= mice(data = df_Impute, method = "rf", m=5)

iter imp variable
1    1    age fare
1    4    age fare
1    4    age fare
2    4    age fare
2    5    age fare
2    5    age fare
3    1    age fare
4    1    age fare
4    1    age fare
4    1    age fare
5    3    age fare
6    4    age fare
7    5    age fare
8    5    age fare
9    5    age fare
1    5
```

