```
#------------------Assignment 3.5

------------------------


# Is there any difference in fares by different class of tickets?

#Note - Show a boxplot displaying the distribution of fares by class


TitanicData <- read.csv("D:/Assignment/TitanicData.txt")

str(TitanicData)


colnames(TitanicData) <- c("PassengerId","Survived","Pclass","Name",

                           "Sex","Age","SibSp","Parch","Ticket","Fare",

                           "Cabin","Embarked")

TitanicData <- TitanicData[,-13]


Titanic <- TitanicData %>% mutate(Pclass = as.factor(Pclass))  # Pasanger class as factor

str(Titanic)

View(Titanic)


boxplot(Fare~Pclass, data = Titanic, col = topo.colors(3),

        xlab = "Class of Ticket", ylab = "Fares", main = "Fares by different Class of Tickets")

# Yes. Fares are different as per Class of Ticket.


#------------------------------------------------------------


# b. Is there any association with Passenger class and gender?

# Note - Show a stacked bar chart
```

```
A <- table(Titanic$Sex, Titanic$Pclass)

A

bp <- barplot(A, col= rainbow(length(A)), legend = rownames(A),

        main = "Passenger class and gender",

        xlab = "Class of Ticket", ylab = "No. of Passangers by Gender")


# Male paasengers are more than female in each class . Also the percentage of

# male passsengers over Female Passangers is more in class 3 as compared to class 1 & 2
```