Session 6 Assessment 2

Problem Statement

1. Import the Titanic Dataset from the link Titanic Data Set.

Perform the following: a. Is there any difference in fares by different class of tickets?

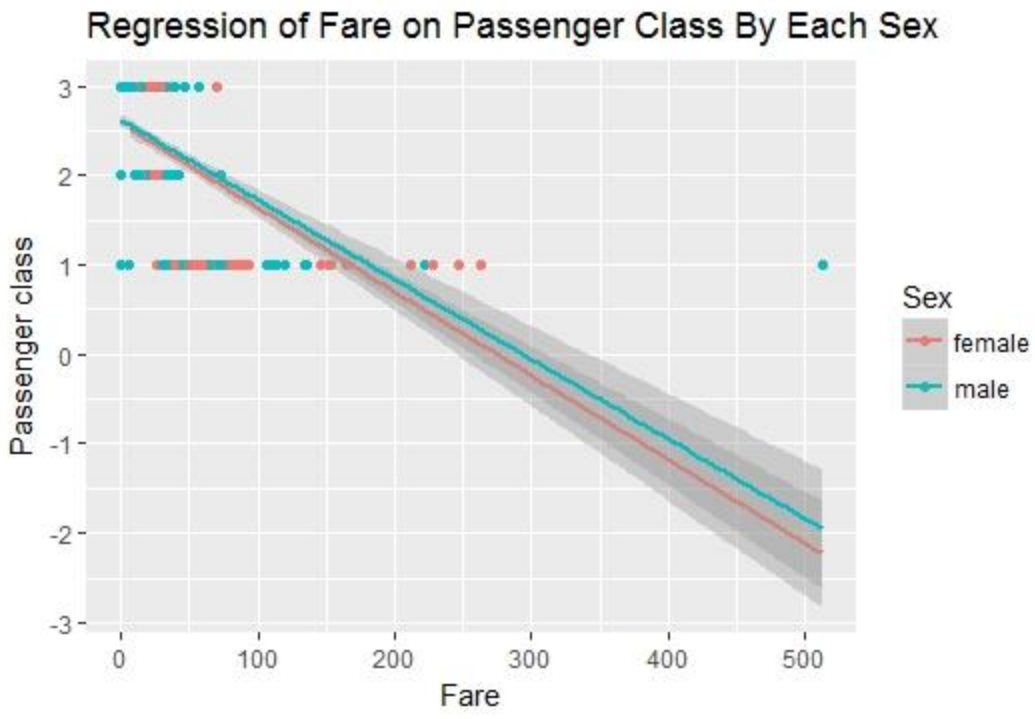
Note - Show a boxplot displaying the distribution of fares by class b. Is there any association with Passenger class and gender?

Note – Show a stacked bar char

The graph is drawn after preprocessing the data and other appropriate libraries incorporated in session 6 assessment 1

```
tapply(training$Fare,training$Pclass,mean)
       1        2        3
84.15469 20.66218 13.67555
```

```
qplot(Fare,Pclass,data = training, geom = c("point","smooth"), method = "lm",
formula = y~x, col = Sex, main = "Regression of Fare on Passenger Class By Ea
ch Sex", ylab = "Passenger class", xlab = "Fare")
```



```
tapply(training$Fare,training$Deck,mean)
        A         B         C         D         E         F         G         T
 39.62389 113.50576 100.15134  57.24458  46.02669  18.69679  13.58125  35.50000

>
```

```
qplot(Deck,Fare, data = training, geom = c("boxplot"), fill = Sex, main = "Fa
re Per Deck",xlab = "", ylab = "Fare")
```