**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 chart**

***Ans:***

a)

setwd("E:/Acadgild/R/Assignment test/Titanic")

library(readxl)

titanic=read\_excel("titanic.xls")

boxplot(fare~pclass,data= titanic,

main="Fares Versus Pclass",xlab="Fares",ylab="Class",col=topo.colors(3))

b)

counts<-table(titanic$sex,titanic$pclass)

barplot(counts, main = "Distribution of Class by gender", xlab="Pclass", col=c("blue", "red"), legend = c("Female","Male"), names.arg = c("Pclass1st", "Pclass2nd","Pclass3rd"))

chisq.test(titanic$pclass ,titanic$sex)

#Since p value is 0.0002064<0.05 , we reject the null hypothesis and thus say there is association