```
#a. Is there any difference in fares by different class of tickets?
#Note - Show a boxplot displaying the distribution of fares by class
#use titanic dataset
library(readr)
titanic <- read_csv("G:/DATA ANALYTICS/DATA/titanic3.csv")
str(titanic)
View(titanic)
boxplot(fare~pclass,data= titanic,
    main="Fares Versus Pclass",xlab="Class",ylab="Fares",col=topo.colors(3))
# Answer1.b. Is there any association with Passenger class and gender?
# Note - Show a stacked bar chart
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"))
#another way --> chisq test for checking association
chisq.test(titanic$pclass ,titanic$sex)
#ho:there is no association
#since p value is 0.0002064<0.05
#we reject the null hypothesis and thus say there is association
```