**Assignment 3.5**

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

Answer:

library(titanic)

library(ggplot2)

titanic\_train$Pclass=as.factor(titanic\_train$Pclass)

fill <- "#4271AE"

line <- "#1F3552"

boxplot\_tit\_fare\_class=

ggplot(data = titanic\_train,aes(titanic\_train$Pclass,titanic\_train$Fare))+ geom\_boxplot(fill=fill, colour=line)+ scale\_y\_continuous(breaks = seq(0,200,10), limits=c(0,200), name = "Fare range based on class") + scale\_x\_discrete(name = "Class of Tickets") + ggtitle("Fare charged on the basis of ticket class")

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

Note – Show a stacked bar chart

Answer:

count= table(titanic\_train$Sex,titanic\_train$Pclass)

cols = c("hotpink4" , "royalblue")

barplot(count, col = cols, legend.text = TRUE,beside = FALSE, main = "Gender vs Class", xlab = "Pclass", ylab="gender", args.legend = list(x = "topleft"))