# Assignment 7.2

1. **Write a program to create barplots for all the categorical columns in mtcars.**

**Ans:** data(mtcars)

par(mfrow=c(2,4))

for(i in 8:11) {

counts<-table(mtcars[,i])

print(counts)

name<-names(mtcars)[i]

barplot(counts,main=name)

}

1. **Create a scatterplot matrix by gear types in mtcars dataset.**

**Ans:**

data(mtcars)

summary(mtcar$gear)

pairs(factor(gear)~.,data=mtcars,col=factor(mtcars$gear))

1. Write a program to create a **plot density** by class variable.

**Ans:**

library(caret)

x<-mtcars[,c(1,3,4,5,6,7)]

y<-as.factor(mtcas[,2])

scales<-list(x=list(relation="free"),y=list(relation="free"))

featurePlot(x=x,y=y,plot="density",scales=scales)