**Assignment 7.1**

1. **Histogram for all variables in a dataset mtcars. Write a program to create histograms for all columns.**

**Ans:** par(mar=c(1,1,1,1)) -- Number of lines of margin

par(mfrow=c(3,4))

for(i in 1:ncol(mtcars)) {hist(mtcars[,i],main=names(mtcars)[i])}

1. **Check the probability distribution of all variables in mtcars**

**Ans**: library(lattice)

data(mtcars)

par(mfrow=c(3,4))

for(i in 1:ncol(mtcars)){

plot(density(mtcars[,i]),main=names(mtcars)[i])

}

1. **Write a program to create boxplot for all variables.**

**Ans:** par(mfrow=c(3,4))

for(i in 1:ncol(mtcars)){

boxplot(mtcars[,i],main=names(mtcars)[i])

}