Assignments for session on "BASIC STATISTICS"

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

Barplot of all categorical variables

str(mtcars)

count <- table(mtcars$cyl)

barplot(counts ,main ="Bar plot of cyl",xlab="cyl",ylab = "counts",col="red")

count <- table(mtcars$vs)

barplot(count ,main ="Bar plot of vs",xlab="vs",ylab = "counts",col="green")

count <- table(mtcars$am)

barplot(count ,main ="Bar plot of am",xlab="am",ylab = "counts",col="blue")

count <- table(mtcars$gear)

barplot(count ,main ="Bar plot of gear",xlab="gear",ylab = "counts",col="pink")

count <- table(mtcars$carb)

barplot(count ,main ="Bar plot of carb",xlab="carb",ylab = "counts",col="red")

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

library(ggplot2)

library(car)

scatterplotMatrix(~mpg+disp+drat+hp|gear,data=mtcars,

        main="Scatter plot Matrix for 3 types of Gear Options")

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

dens_mpg<- density(mtcars$mpg)

plot(dens_mpg, main="kernel density of mpg")

polygon(dens_mpg,col="white",border ="red")