# Assignment (7.2) 30- Dec 2017

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

**Sol: -** library (tidyr)

library (ggplot2)

library (dplyr)

matcars <- NULL

matcars <- mtcars[,c(3,9,10,11,12)]

matcars %>%

gather() %>%

ggplot(aes(x=factor(value))) +

facet\_wrap(~ key,scales = "free") +

geom\_bar() + theme\_classic()

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

**Sol: -** pairs(~gear + mpg + cyl + disp + hp + drat + wt + qsec + vs + am + carb, data = mtcars, main = "Simple Scatterplot Matrix",col="blue")

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

**Sol: -** *d* <- density(mtcars$mpg)

plot(d,main="Density")

polygon(d,col=4 ,border =1)