# Assignment (7.1) 30- Dec 2017

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

**Sol:-** library(purrr)

library(tidyr)

library(ggplot2)

mtcars %>%

keep(is.numeric) %>%

gather() %>%

ggplot(aes(value)) +

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

geom\_histogram()

2. Check the probability distribution of all variables in mtcars.

**Sol:-** mtcars %>%

keep(is.numeric) %>%

gather() %>%

ggplot(aes(value)) +

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

stat\_density()

3. Write a program to create boxplot for all variables.

**Sol:-** library(reshape)

m1 <- melt(mtcars)

ggplot(m1,aes(x = variable,y = value)) + facet\_wrap(~variable) + geom\_boxplot()