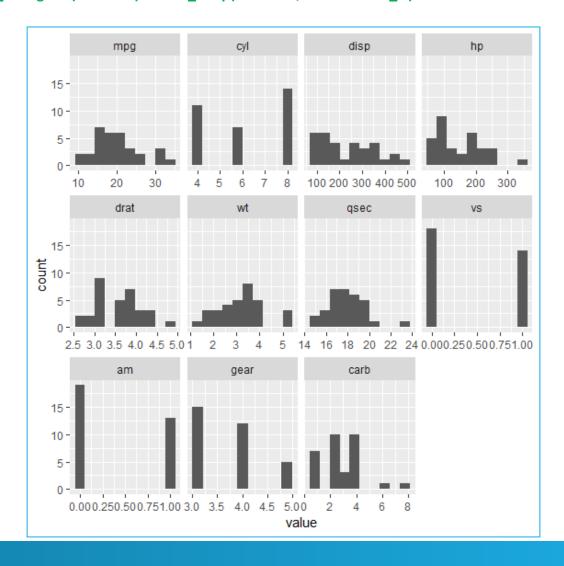
SESSION 7 - ASSIGNMENT 7.1

Date: 29th Jan 2019

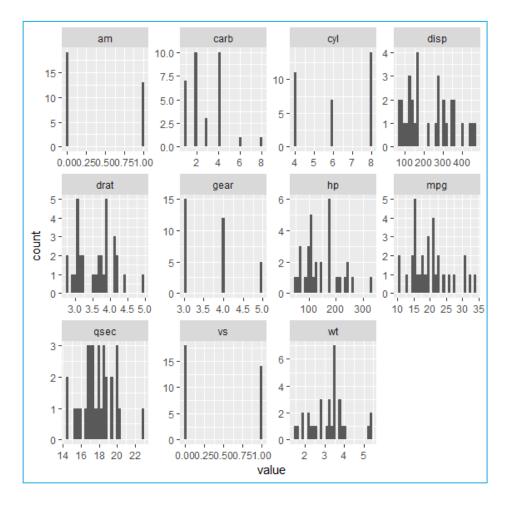
1. Histogram for all variables in a dataset mtcars. Write a program to create histograms for all columns

```
library(reshape2)
head(melt(mtcars))
library(ggplot2)
ggplot(data = melt(mtcars), mapping = aes(x = value)) +
    geom_histogram(bins = 10) + facet_wrap(~variable, scales = 'free_x')
```



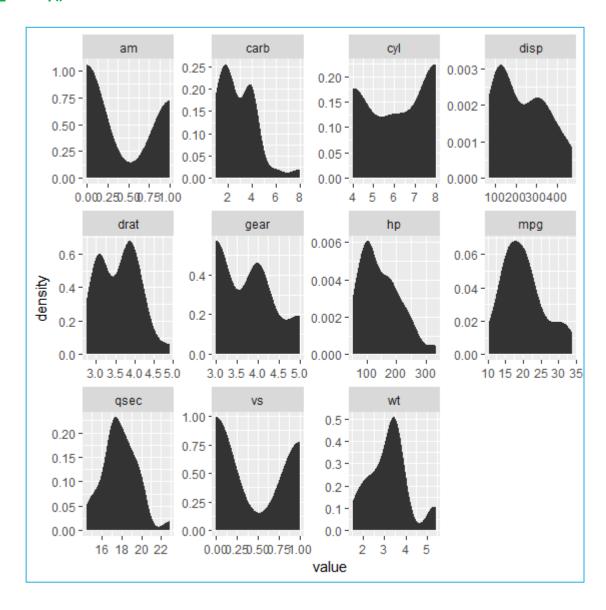
OR

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.

```
library(ggplot2)
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.

```
library(ggplot2)
library(reshape)
m1 <- melt(mtcars)
ggplot(m1,aes(x = variable,y = value)) + facet_wrap(~variable) + geom_boxplot()</pre>
```

