Q1. Histogram for all variables in a dataset mtcars. Write a program to create histograms for all columns.

Ans. **CODE:**

library(purrr)

library(tidyr)

library(ggplot2)

mtcars %>%

keep(is.numeric) %>%

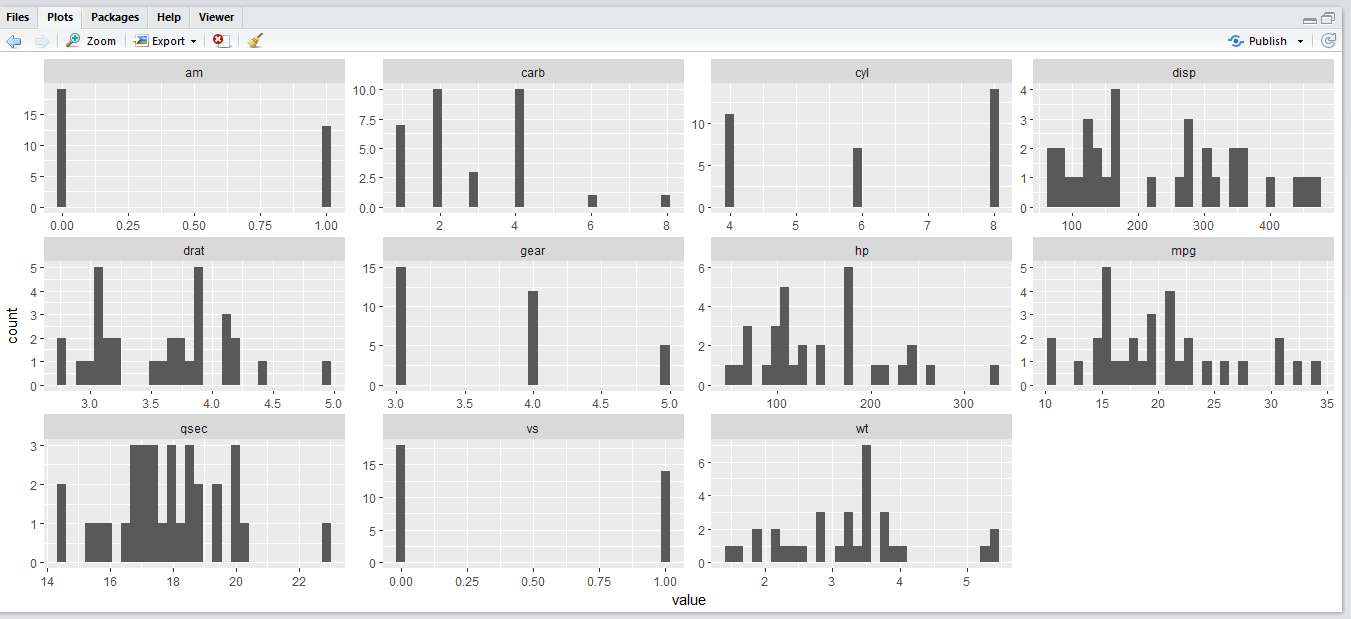
gather() %>%

ggplot(aes(value)) +

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

**geom\_histogram()**

**OUTPUT:**

****

Q2. Check the probability distribution of all variables in mtcars.

ANS. **CODE**

mtcars %>%

keep(is.numeric) %>%

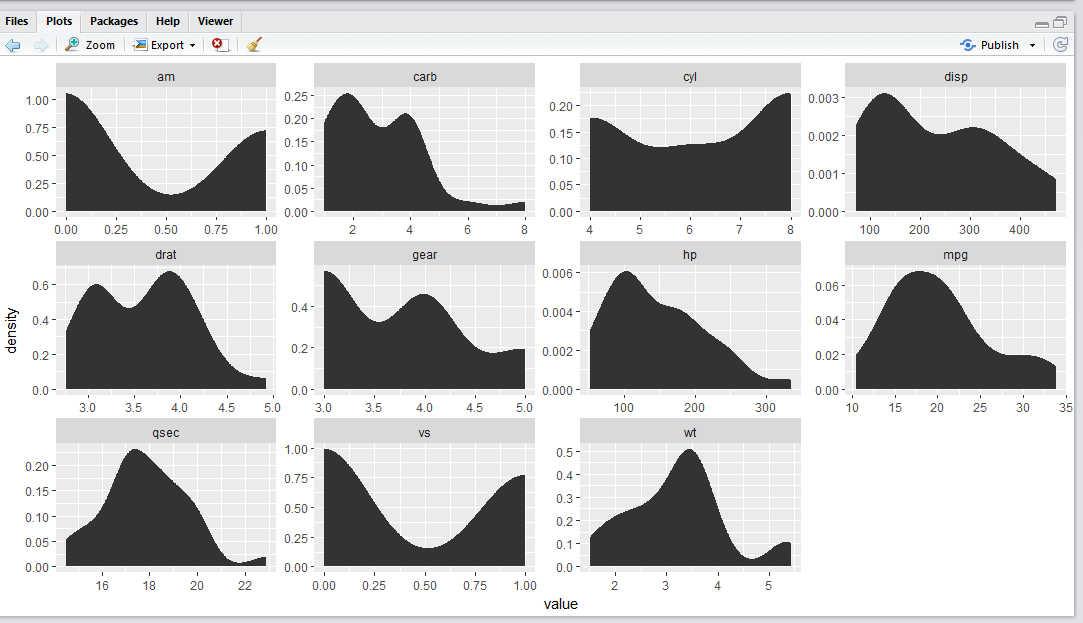
gather() %>%

ggplot(aes(value)) +

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

**stat\_density()**

**OUTPUT**



Q3. Write a program to create boxplot for all variables.

ANS. **CODE**

***miles\_per\_gallon <- rep(mtcars[,2],times=5)***

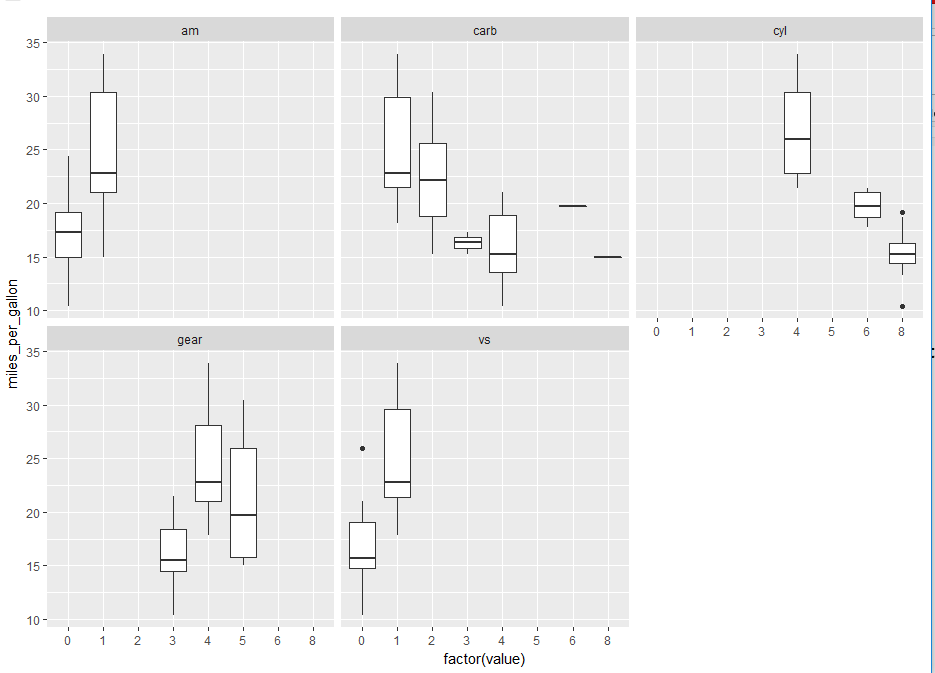
***miles\_per\_gallon <- unlist(miles\_per\_gallon)***

***mtcars[,c(3,9,10,11,12)] %>% gather() %>%***

***ggplot(aes(x=factor(value),y=miles\_per\_gallon)) +***

***geom\_boxplot() + facet\_wrap(~key)***

**OUTPUT**

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