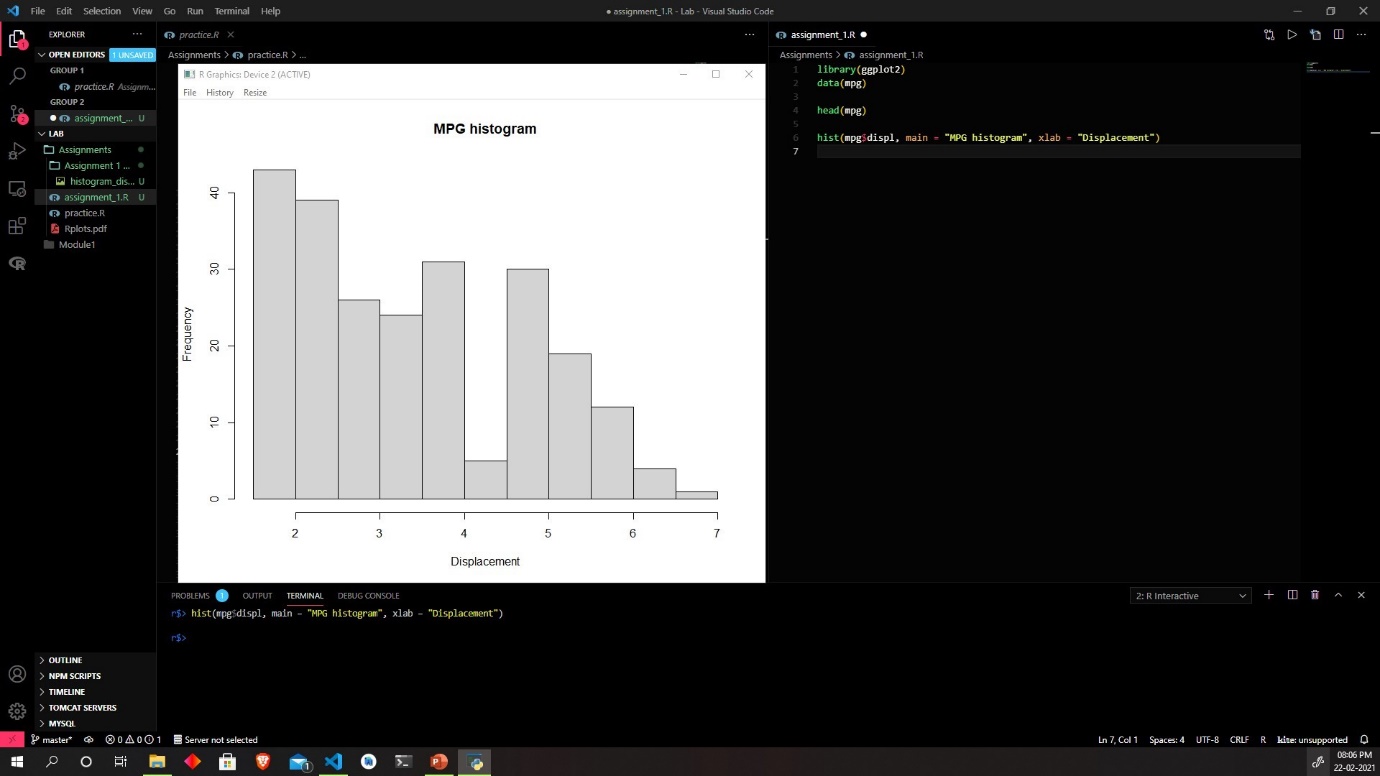
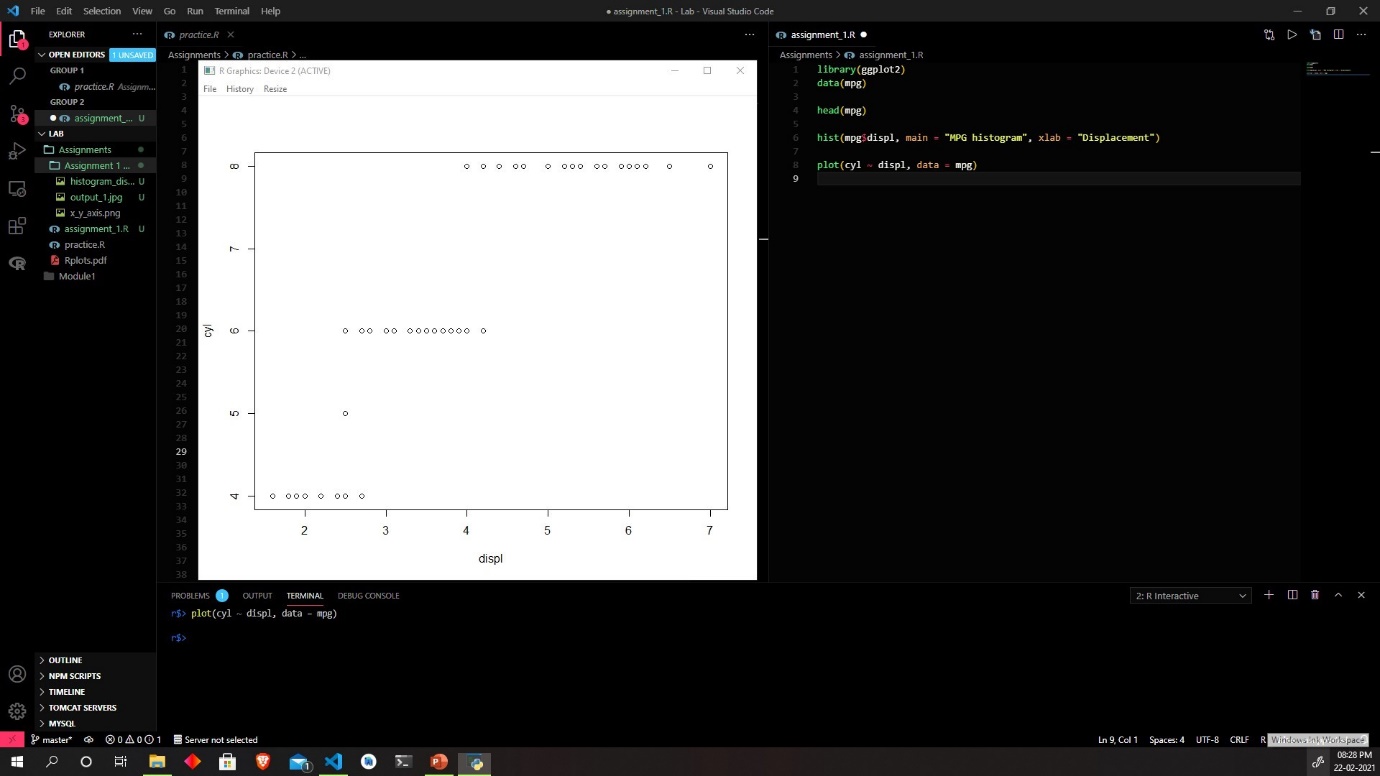
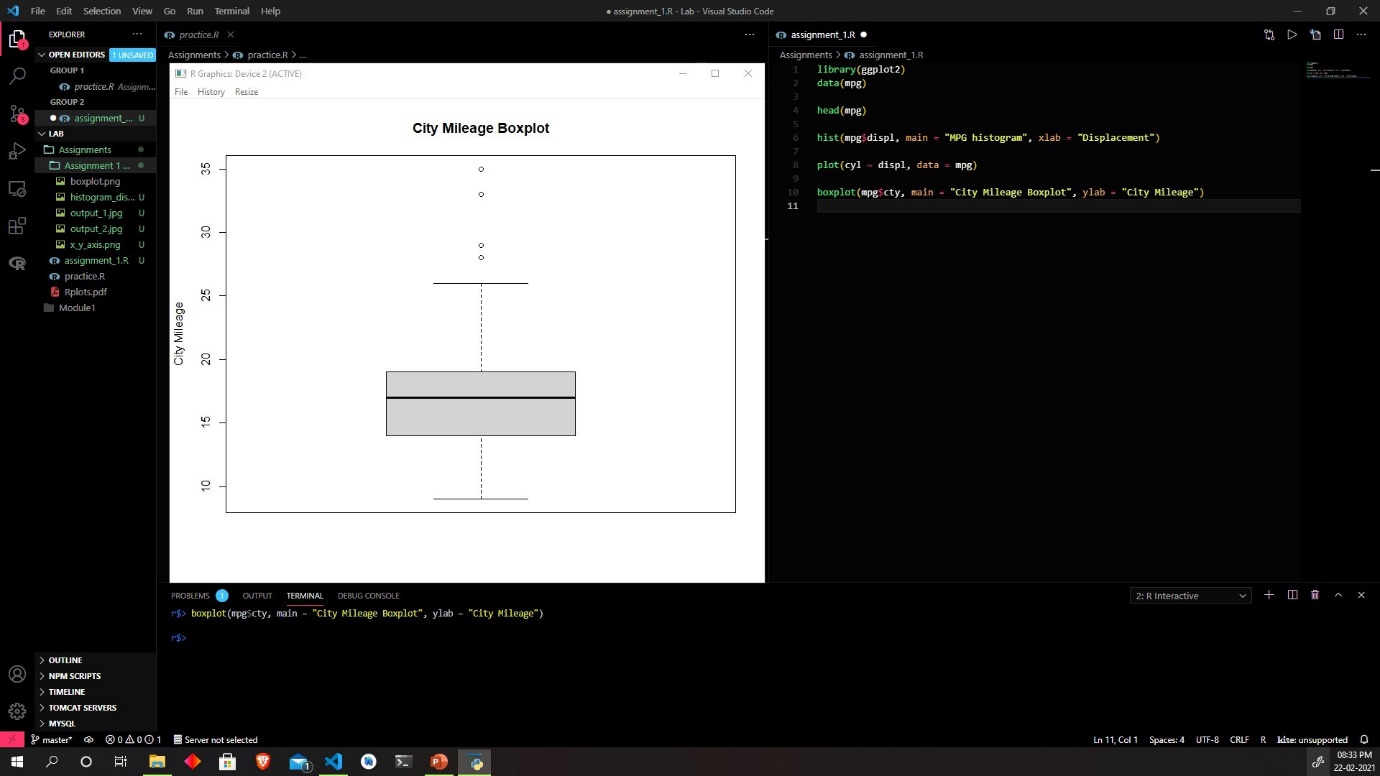
19BCE2311 Gaurav Singh

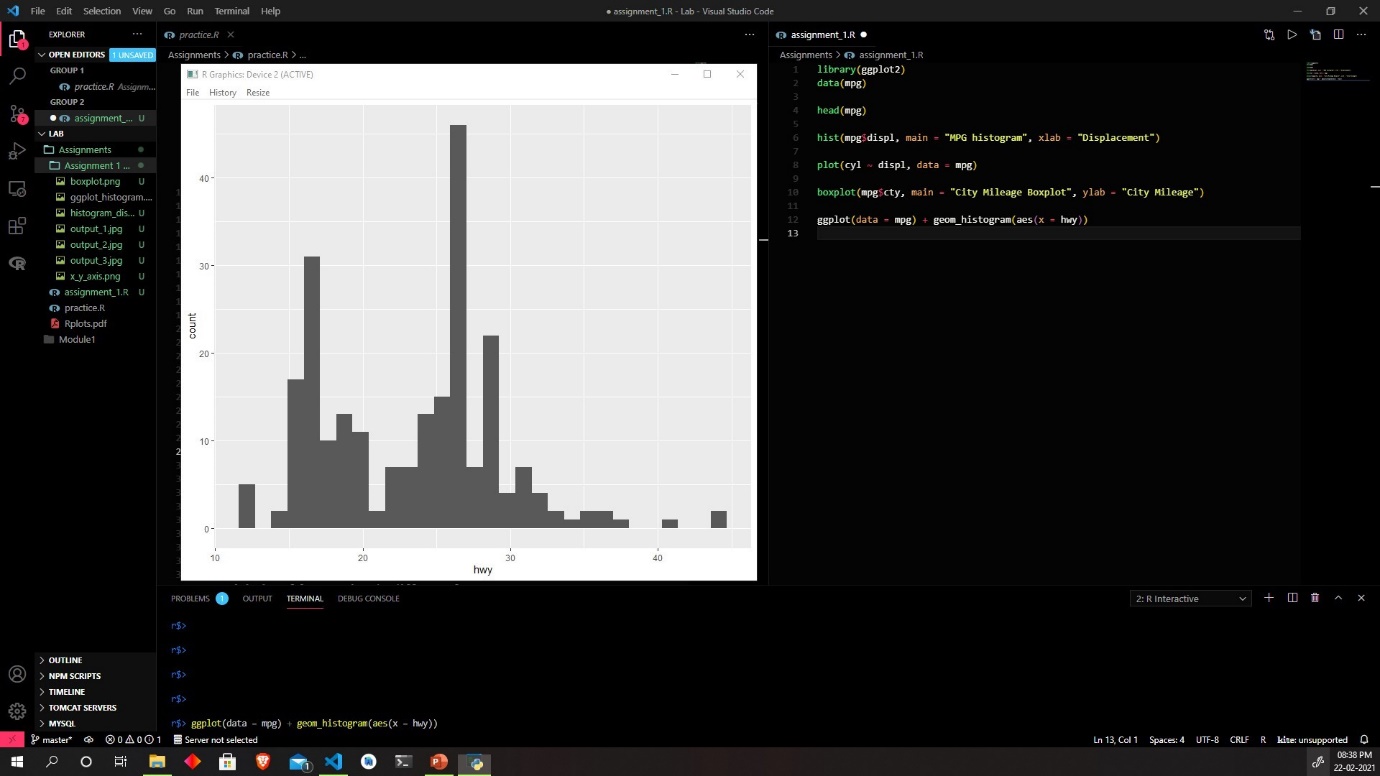
Data Visualization

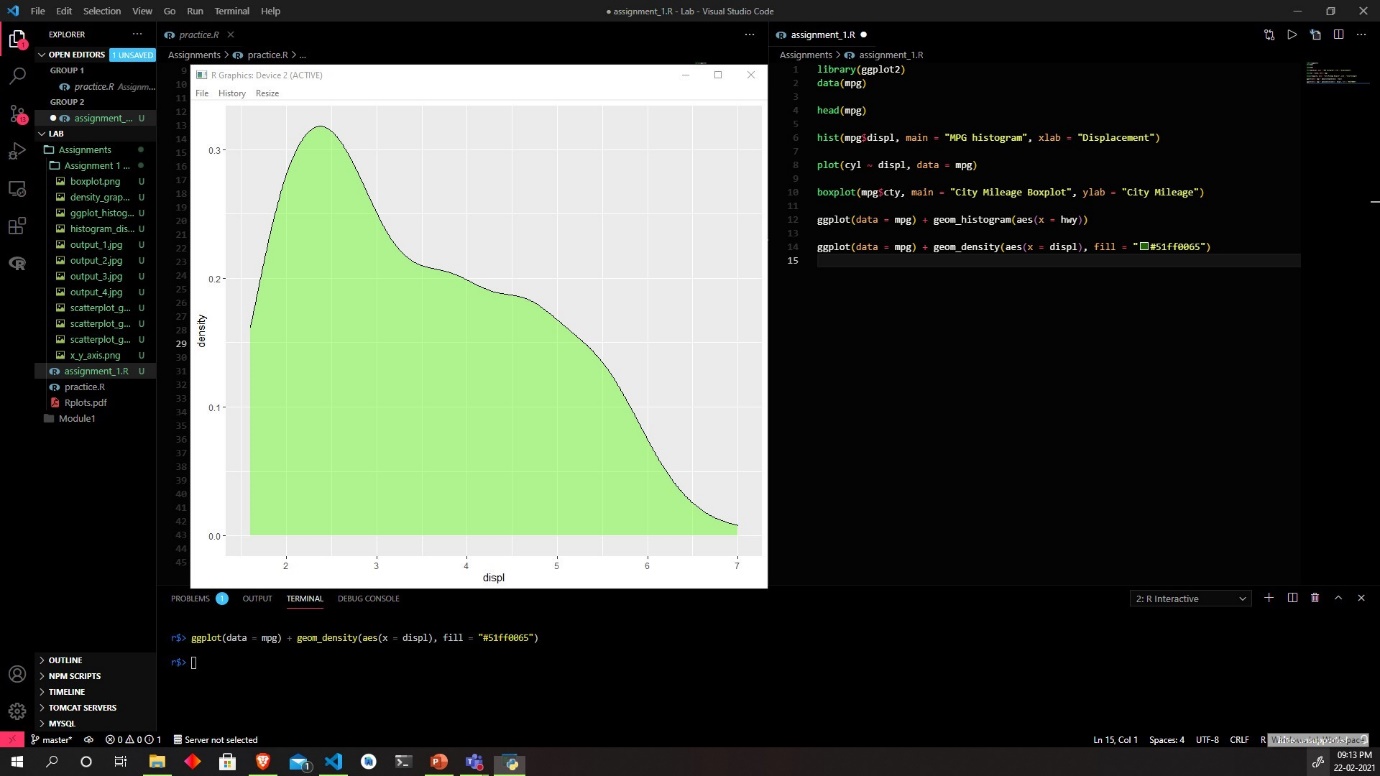
Outputs :

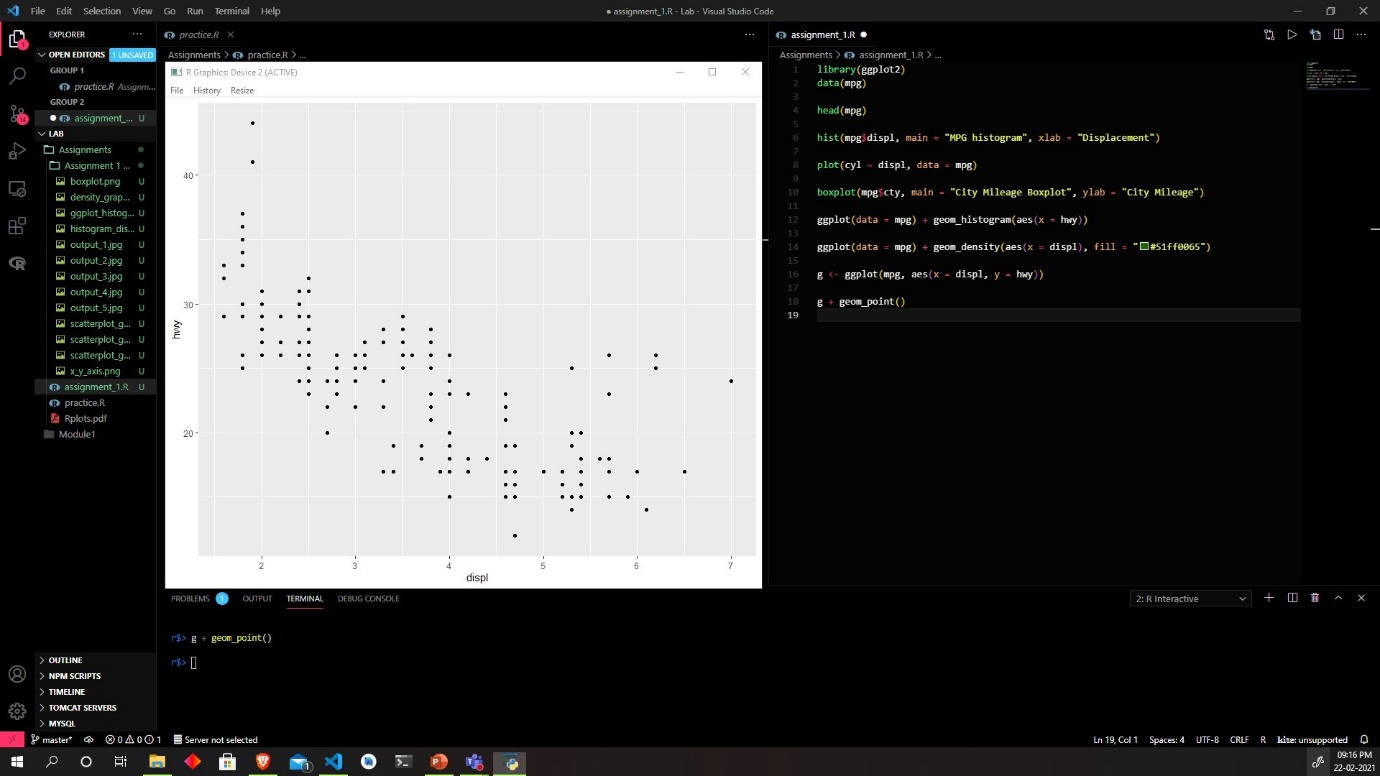


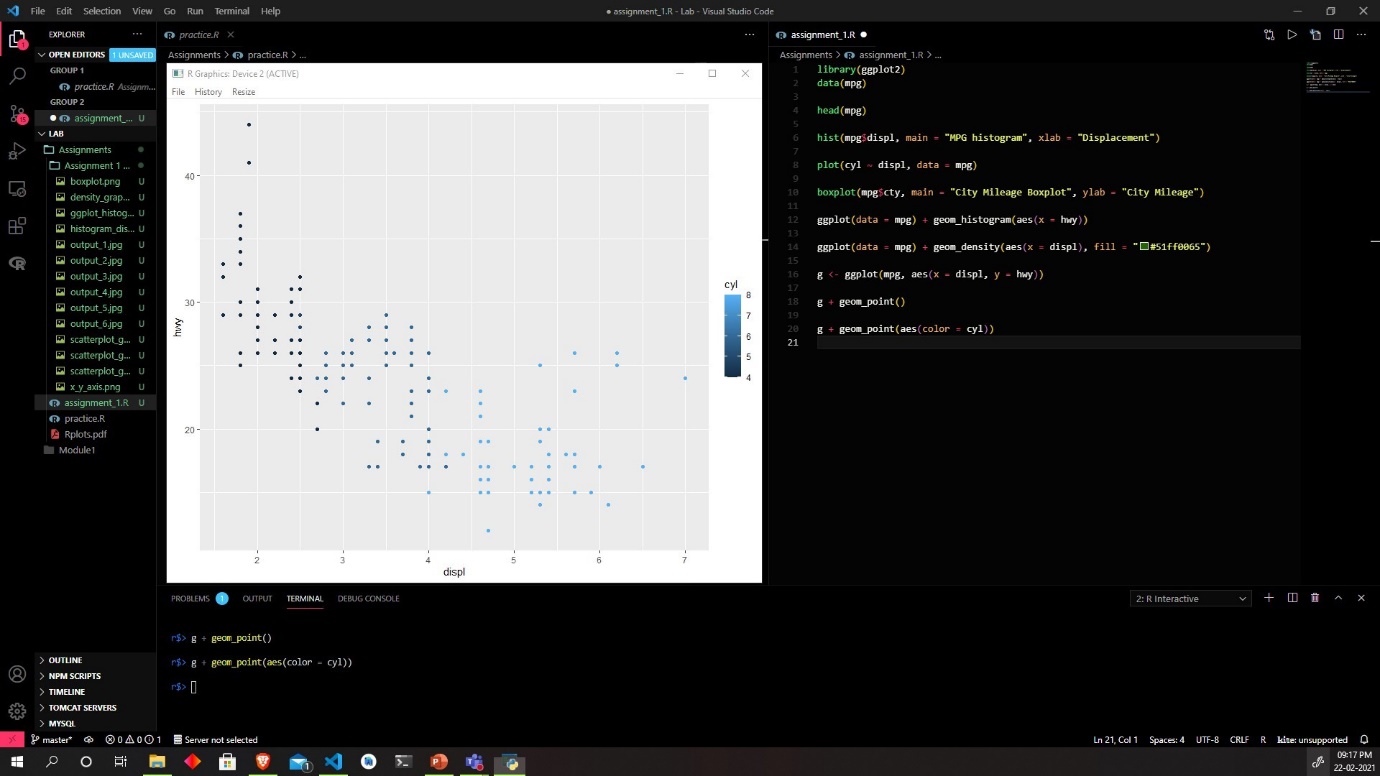


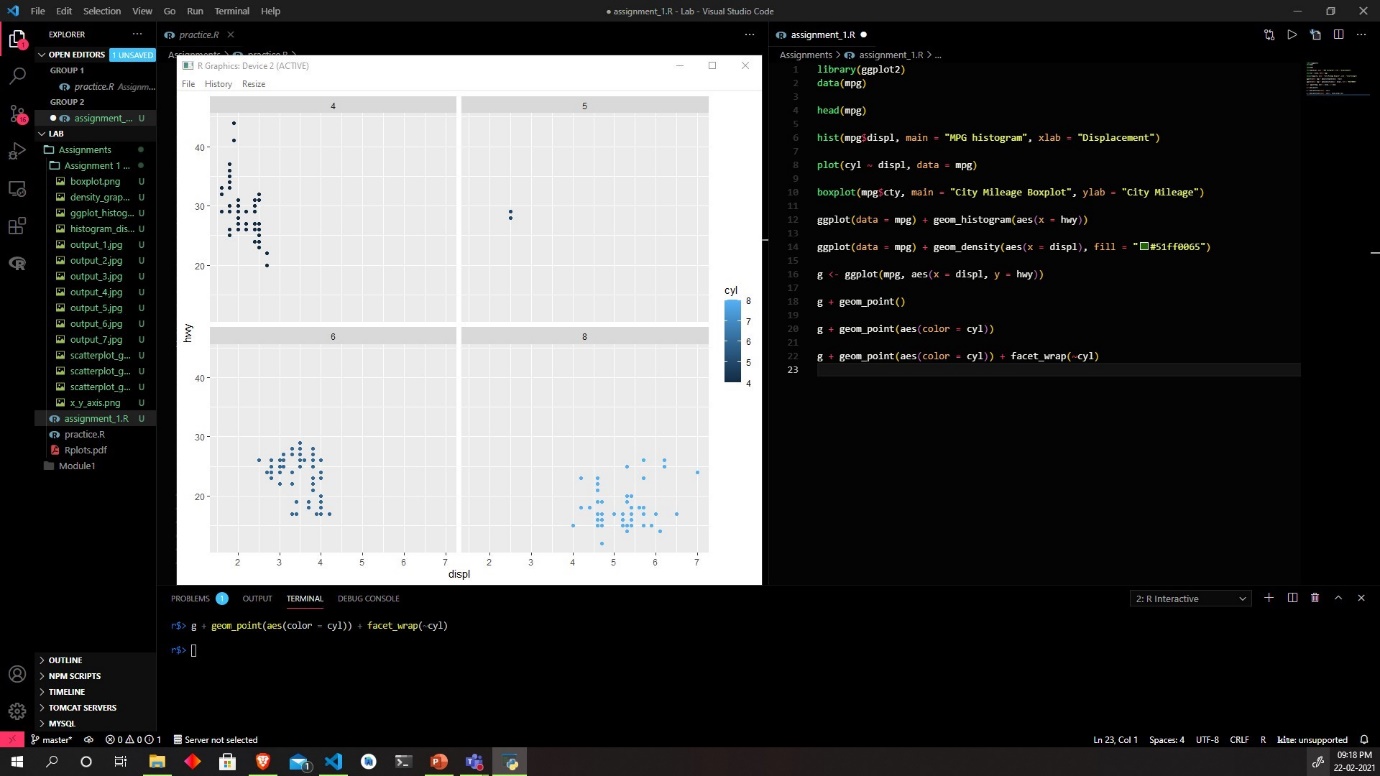


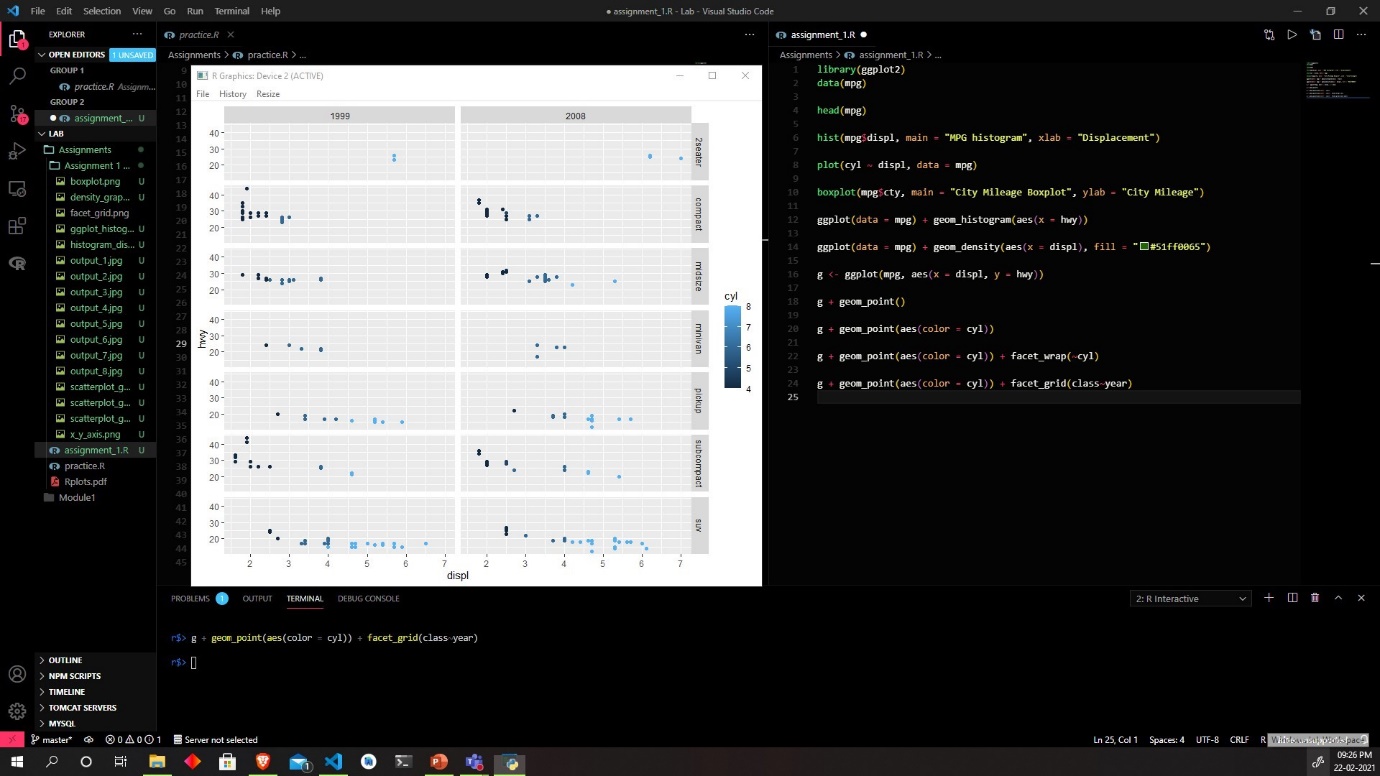


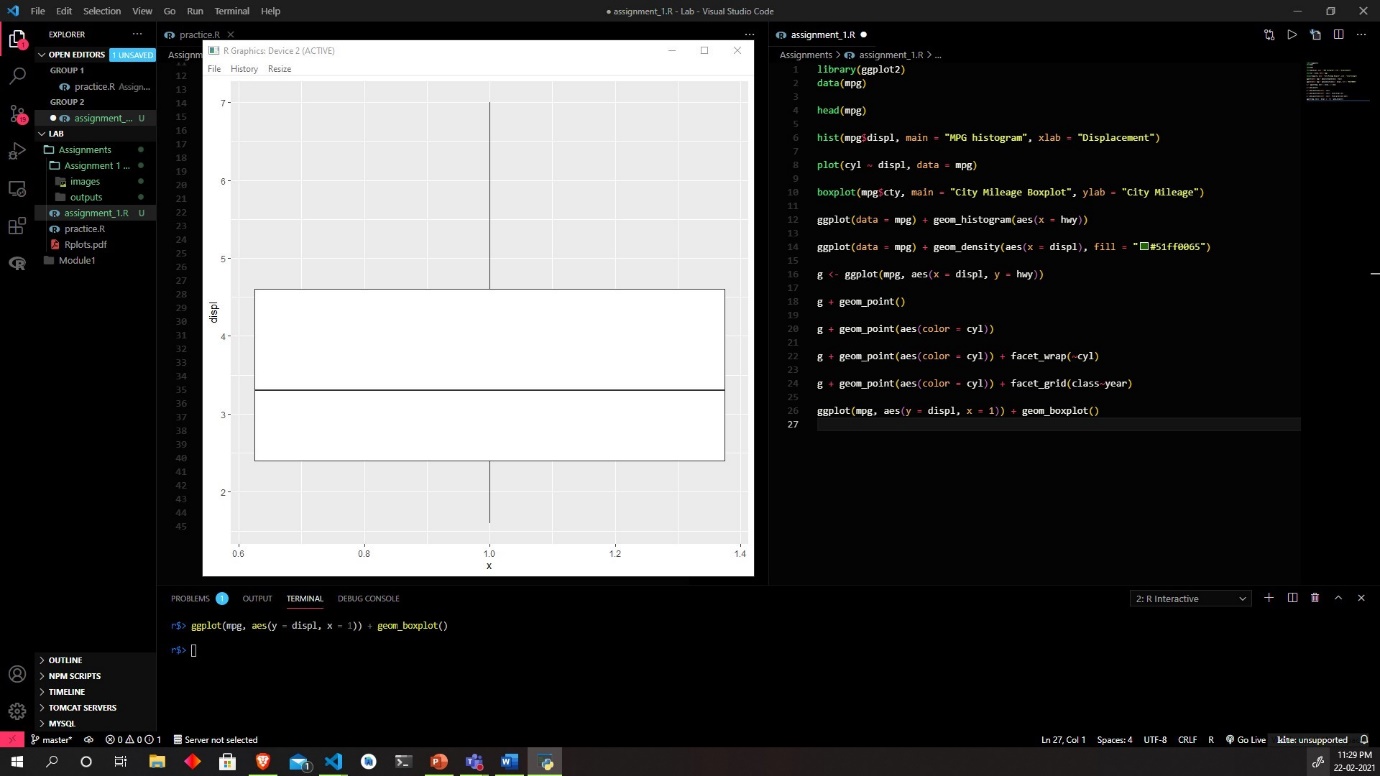


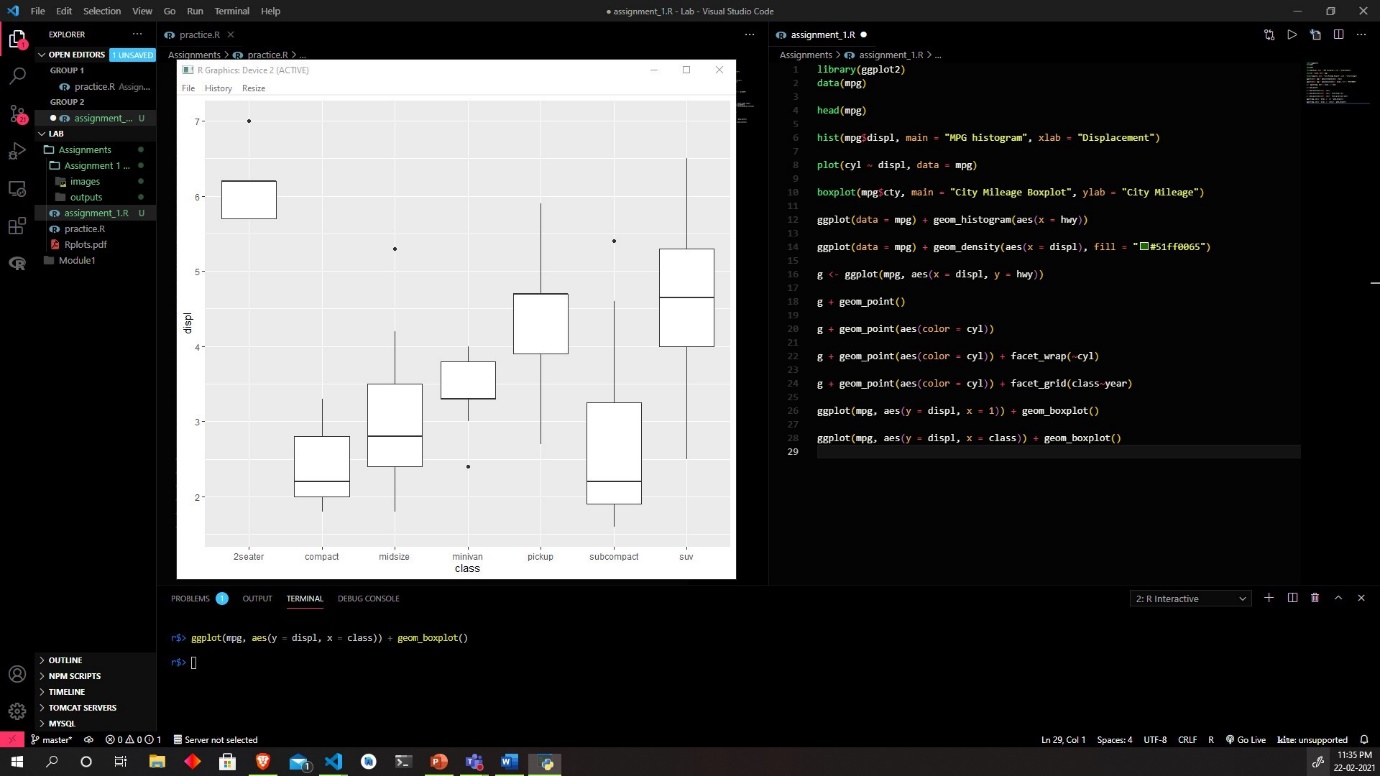


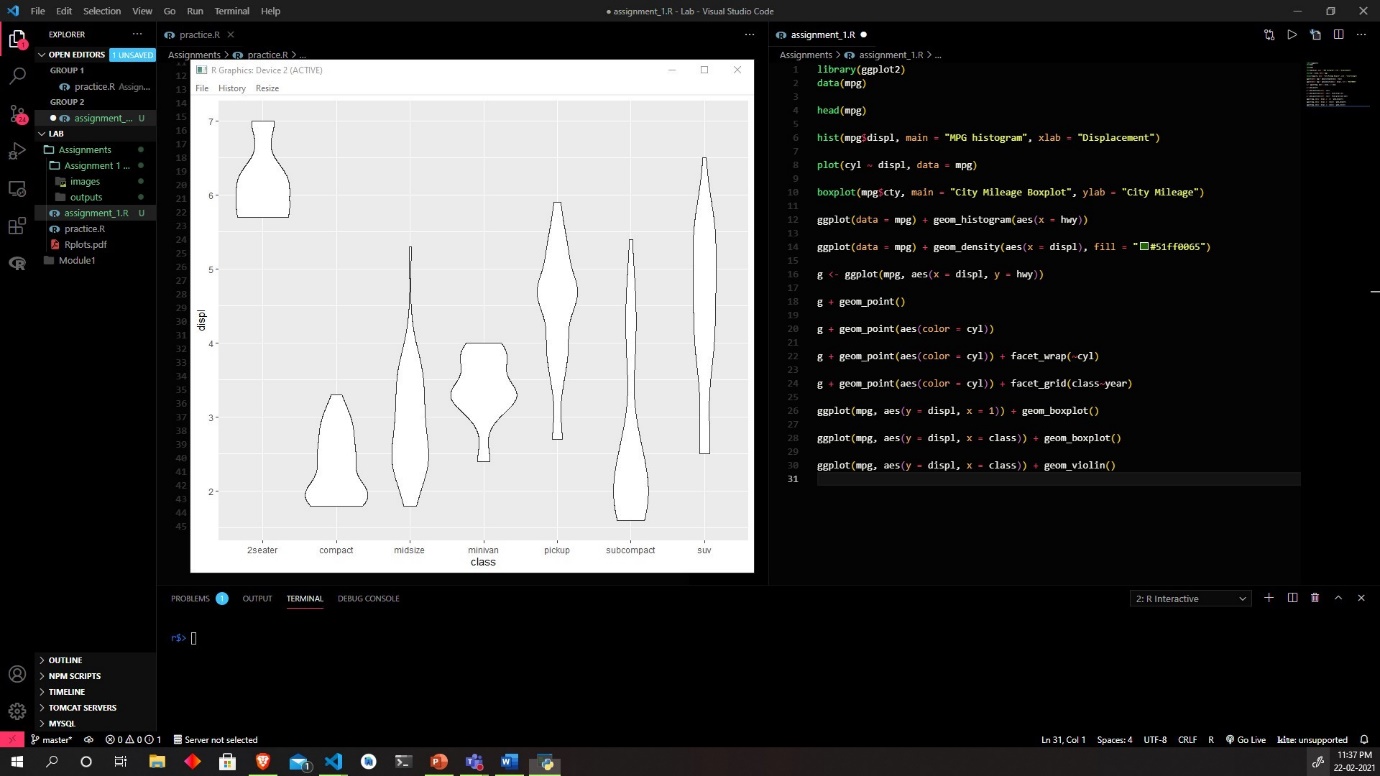


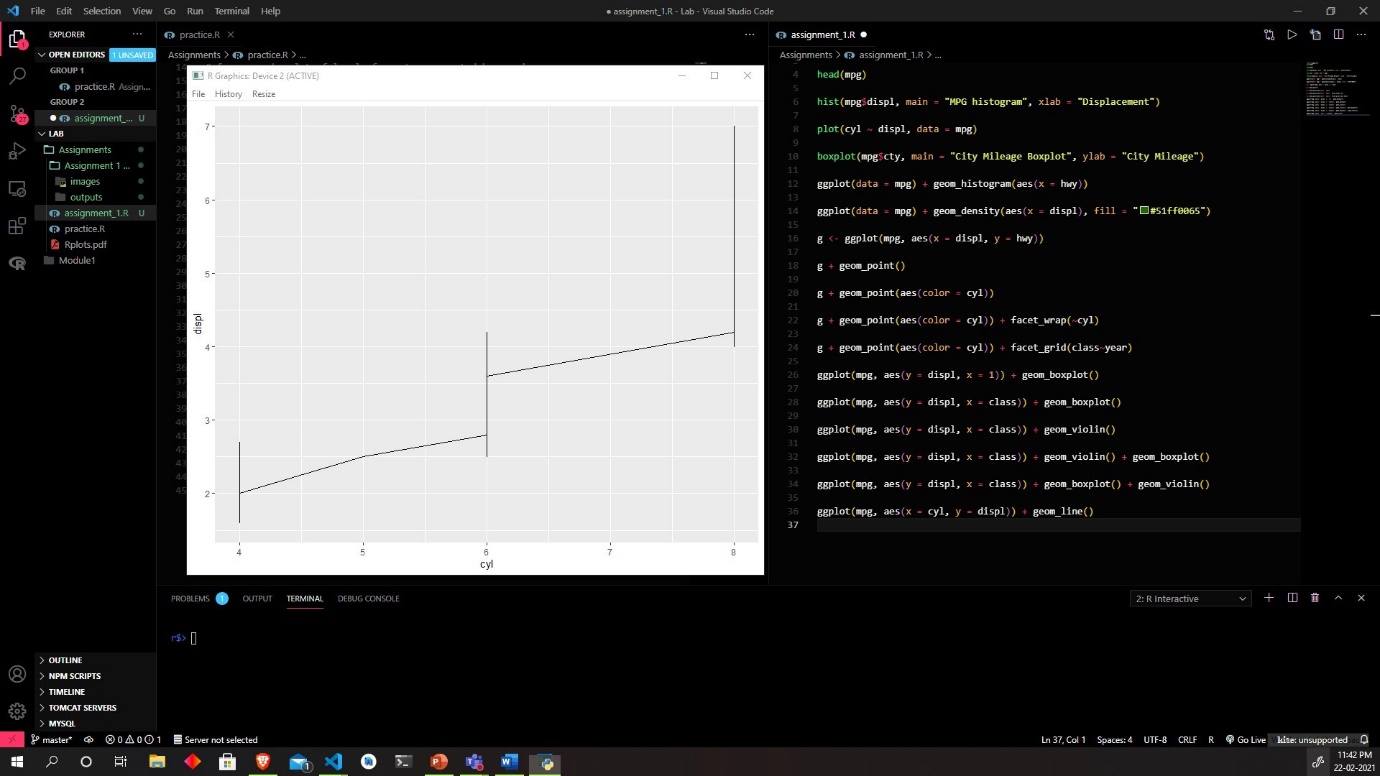


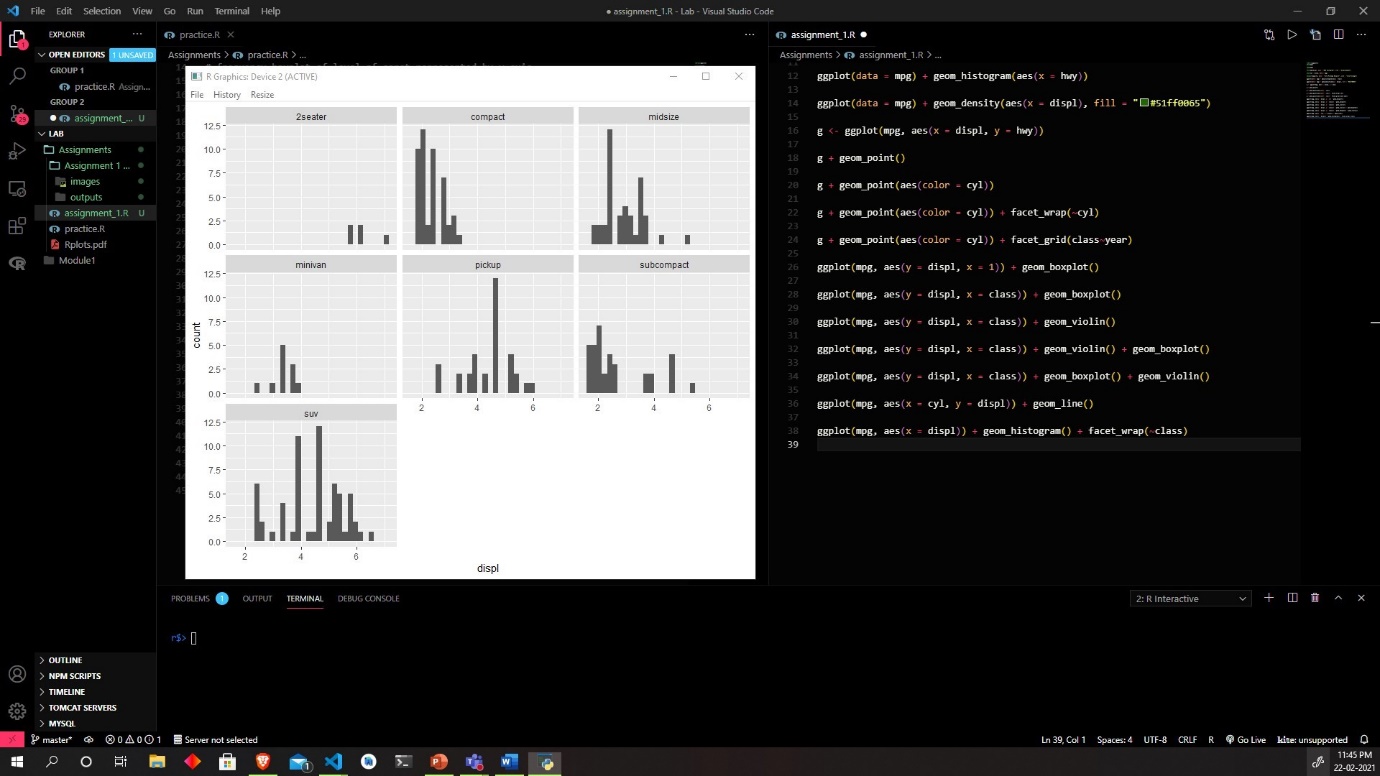












Code :

library(ggplot2)

data(mpg)

head(mpg)

hist(mpg$displ, main = "MPG histogram", xlab = "Displacement")

plot(cyl ~ displ, data = mpg)

boxplot(mpg$cty, main = "City Mileage Boxplot", ylab = "City Mileage")

ggplot(data = mpg) + geom\_histogram(aes(x = hwy))

ggplot(data = mpg) + geom\_density(aes(x = displ), fill = "#51ff0065")

g <- ggplot(mpg, aes(x = displ, y = hwy))

g + geom\_point()

g + geom\_point(aes(color = cyl))

g + geom\_point(aes(color = cyl)) + facet\_wrap(~cyl)

g + geom\_point(aes(color = cyl)) + facet\_grid(class~year)

ggplot(mpg, aes(y = displ, x = 1)) + geom\_boxplot()

ggplot(mpg, aes(y = displ, x = class)) + geom\_boxplot()

ggplot(mpg, aes(y = displ, x = class)) + geom\_violin()

ggplot(mpg, aes(y = displ, x = class)) + geom\_violin() + geom\_boxplot()

ggplot(mpg, aes(y = displ, x = class)) + geom\_boxplot() + geom\_violin()

ggplot(mpg, aes(x = cyl, y = displ)) + geom\_line()

ggplot(mpg, aes(x = displ)) + geom\_histogram() + facet\_wrap(~class)