19BCE2311 Gaurav Singh

Data Visualization

Data Import Code:

Code:

library(ggplot2)

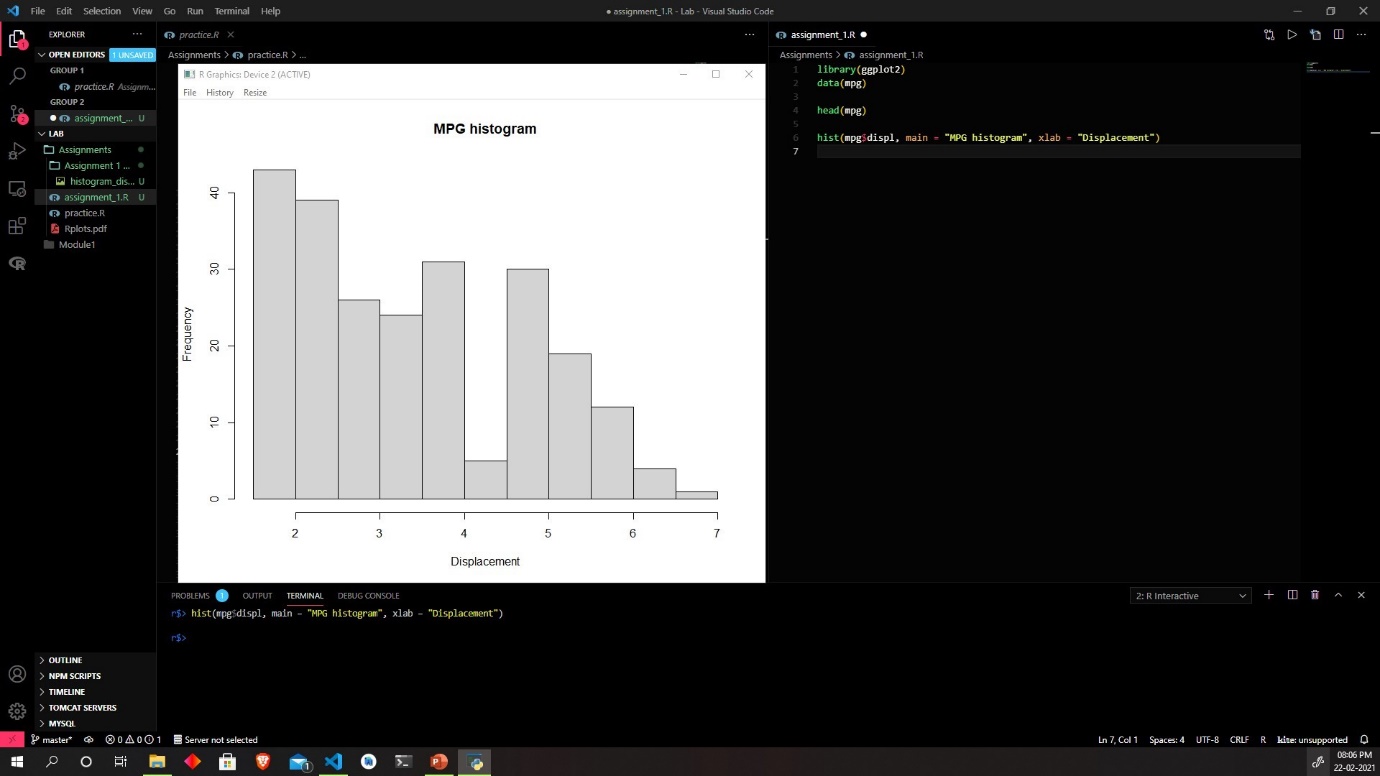
data(mpg)

head(mpg)

Outputs :

1)

Image:

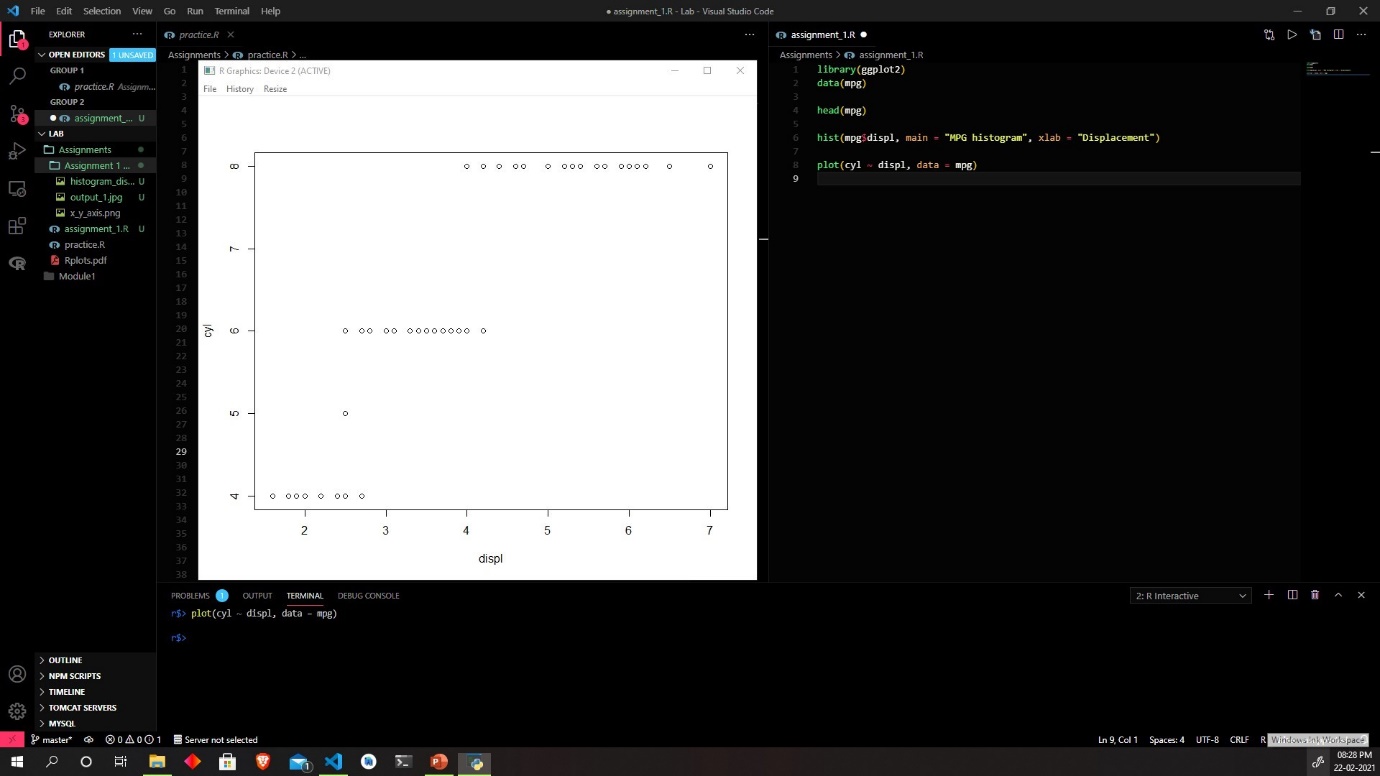


Code:

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

2)

Image:

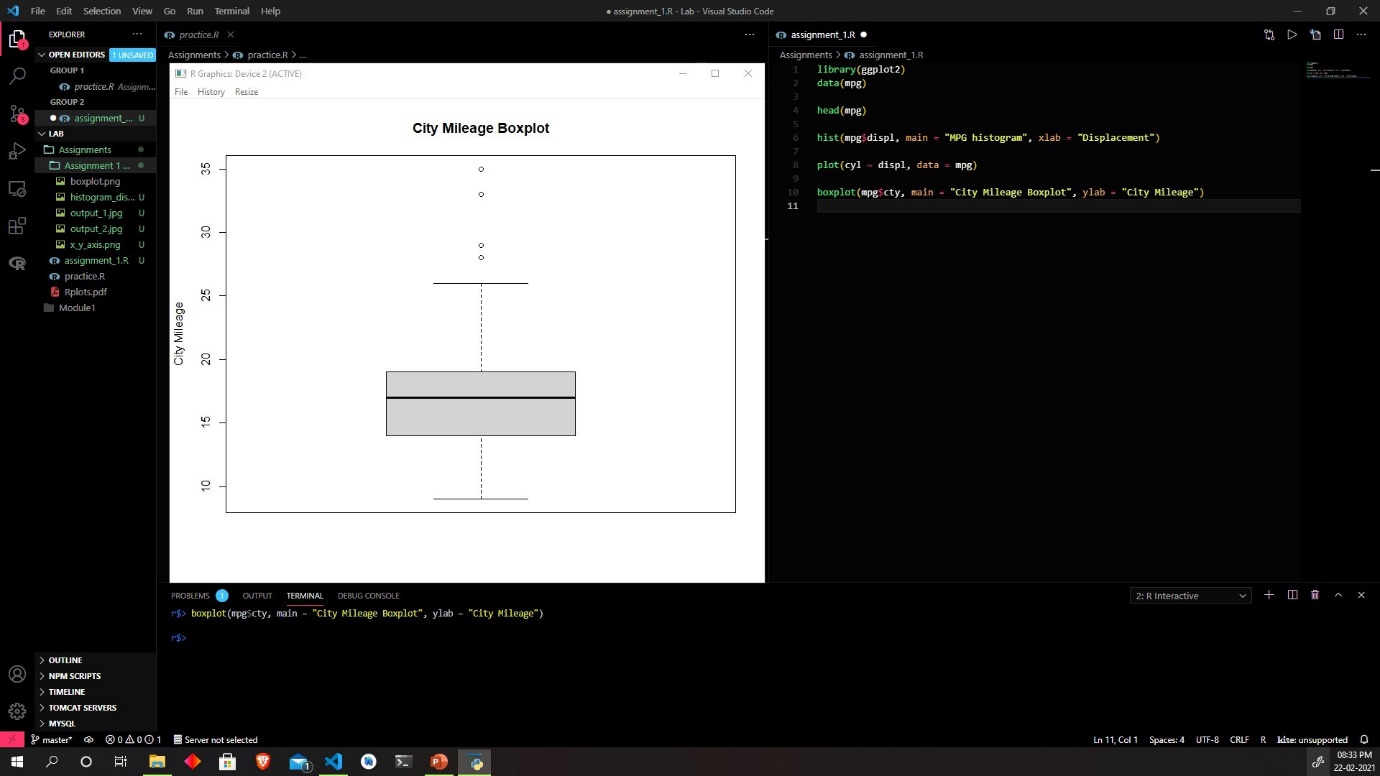


Code :

plot(cyl ~ displ, data = mpg)

3)

Image:

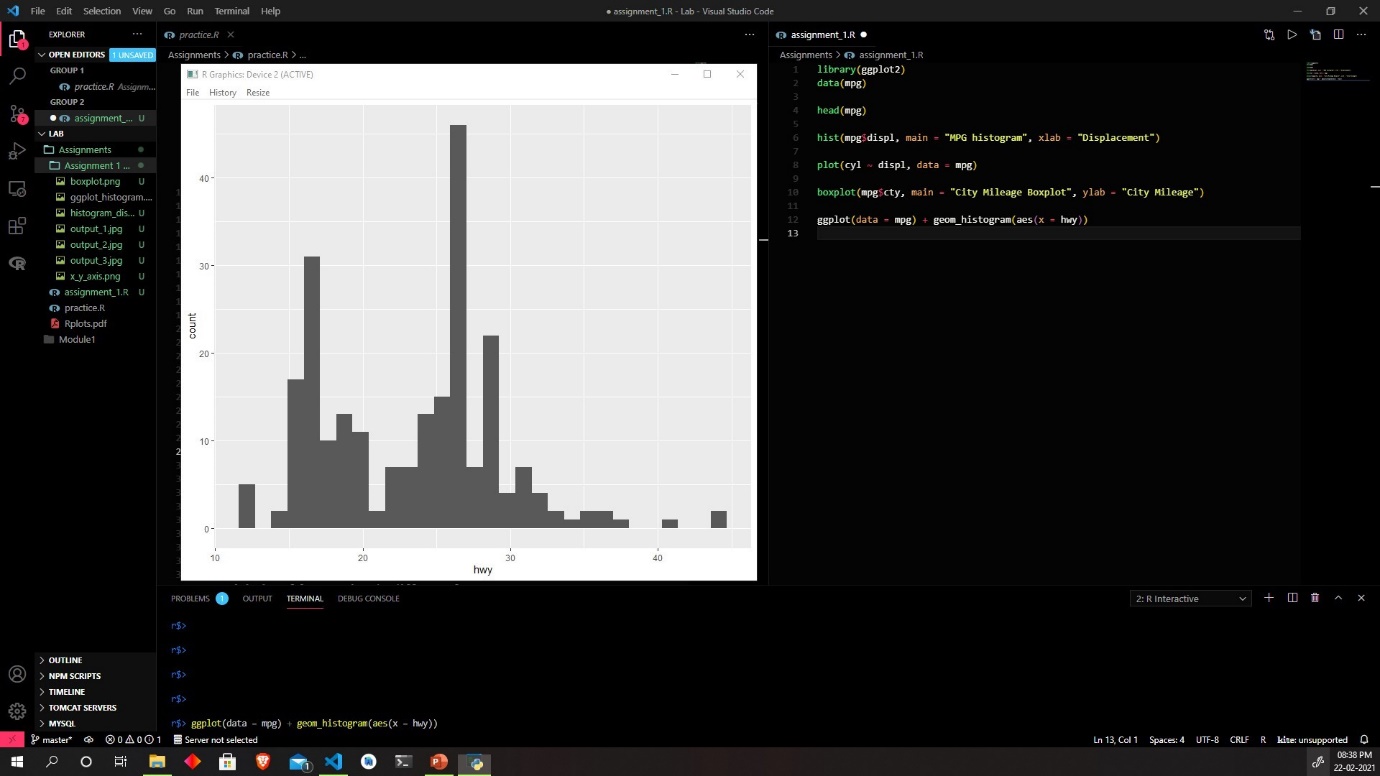


Code:

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

4)

Image:

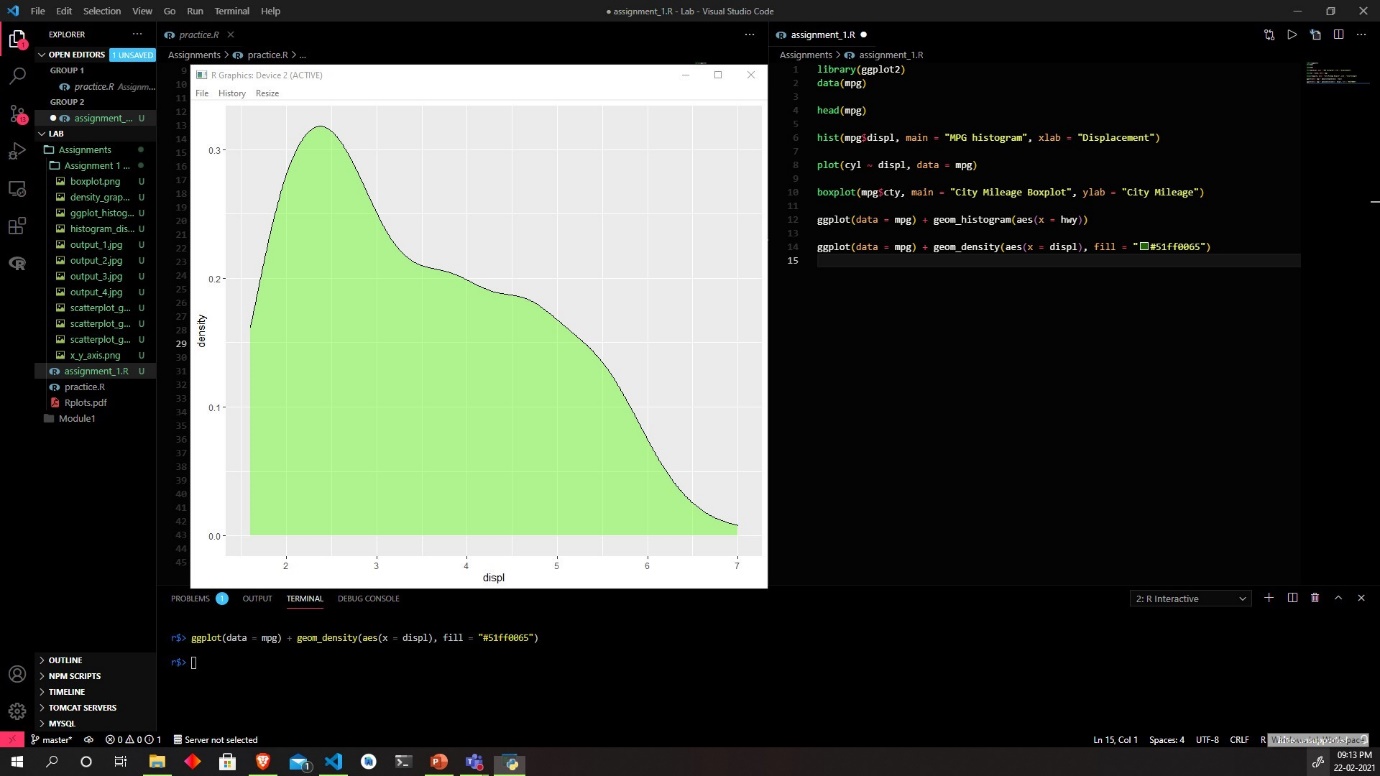


Code:

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

5)

Image:

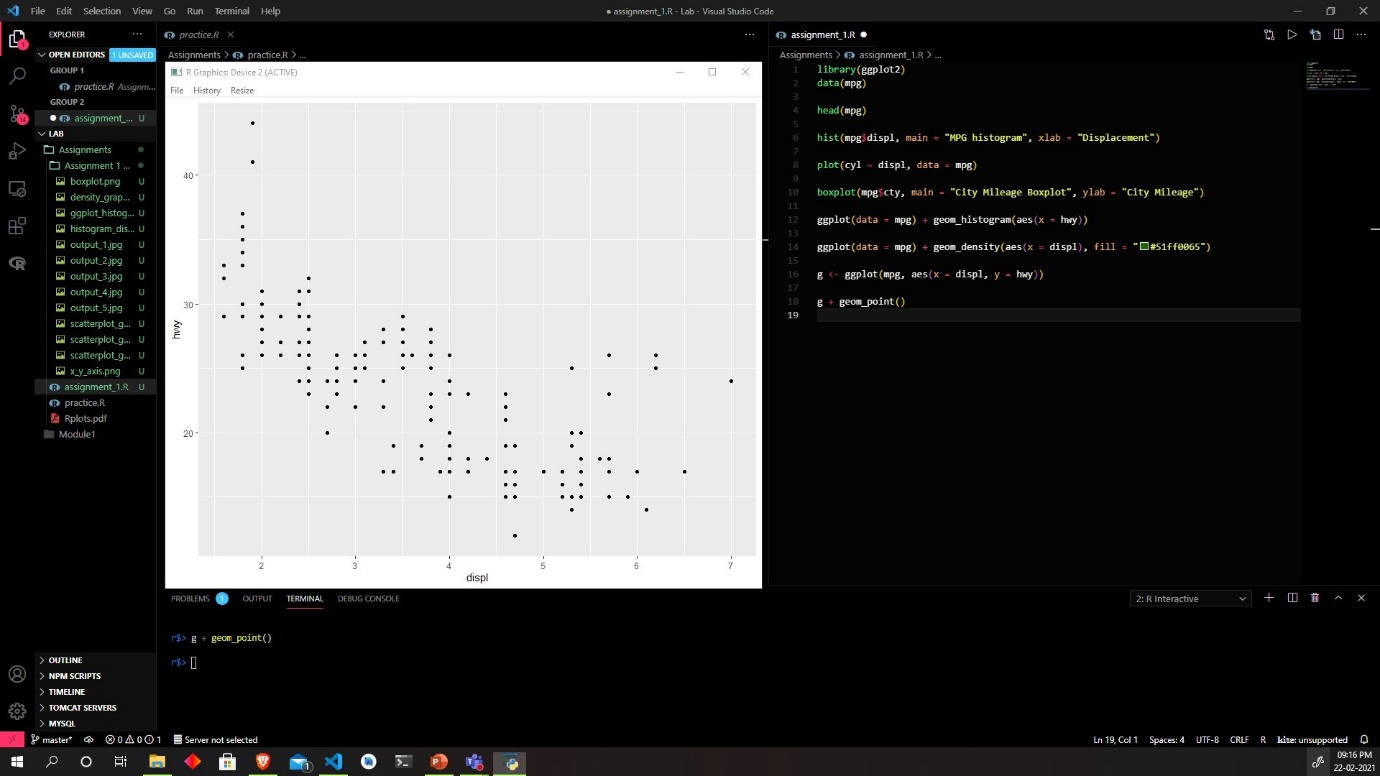


Code:

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

6)

Image:



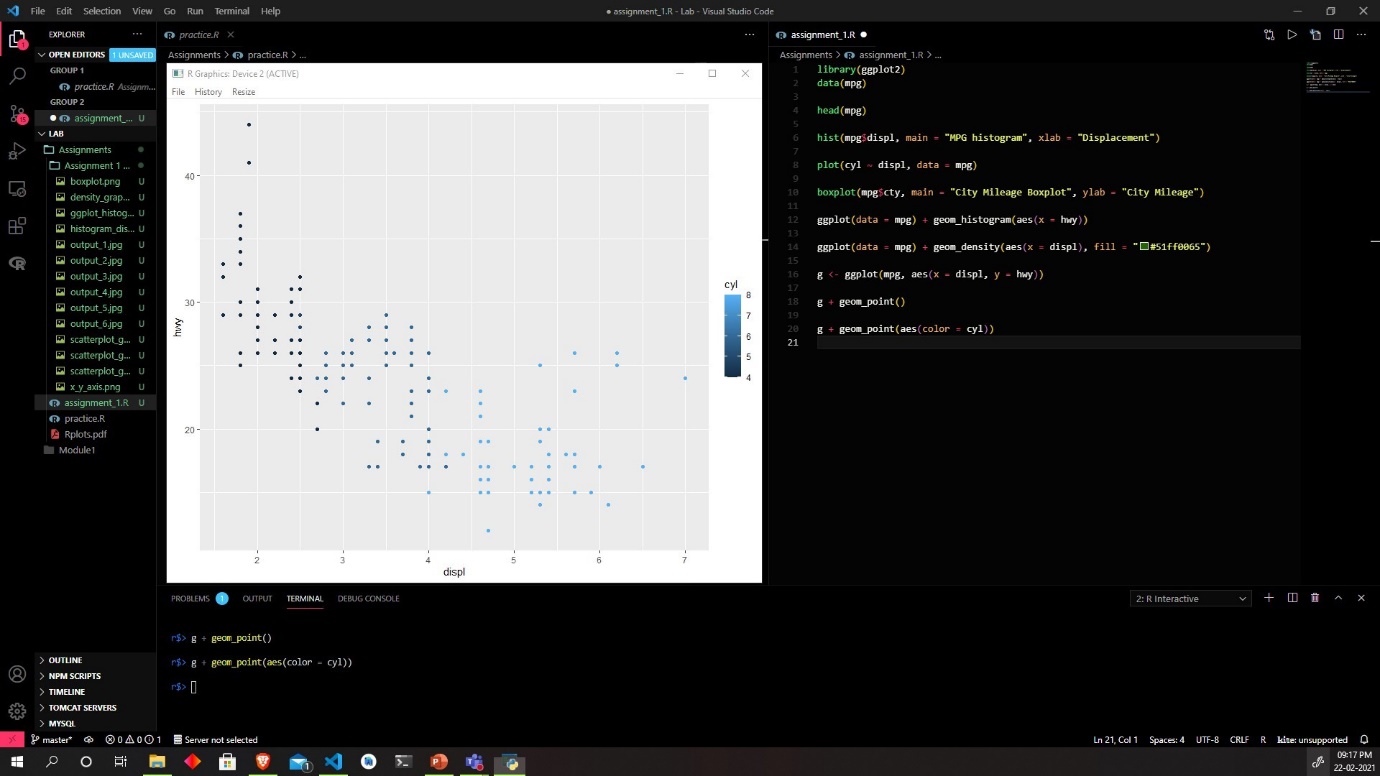
Code:

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

g + geom\_point()

7)

Image:

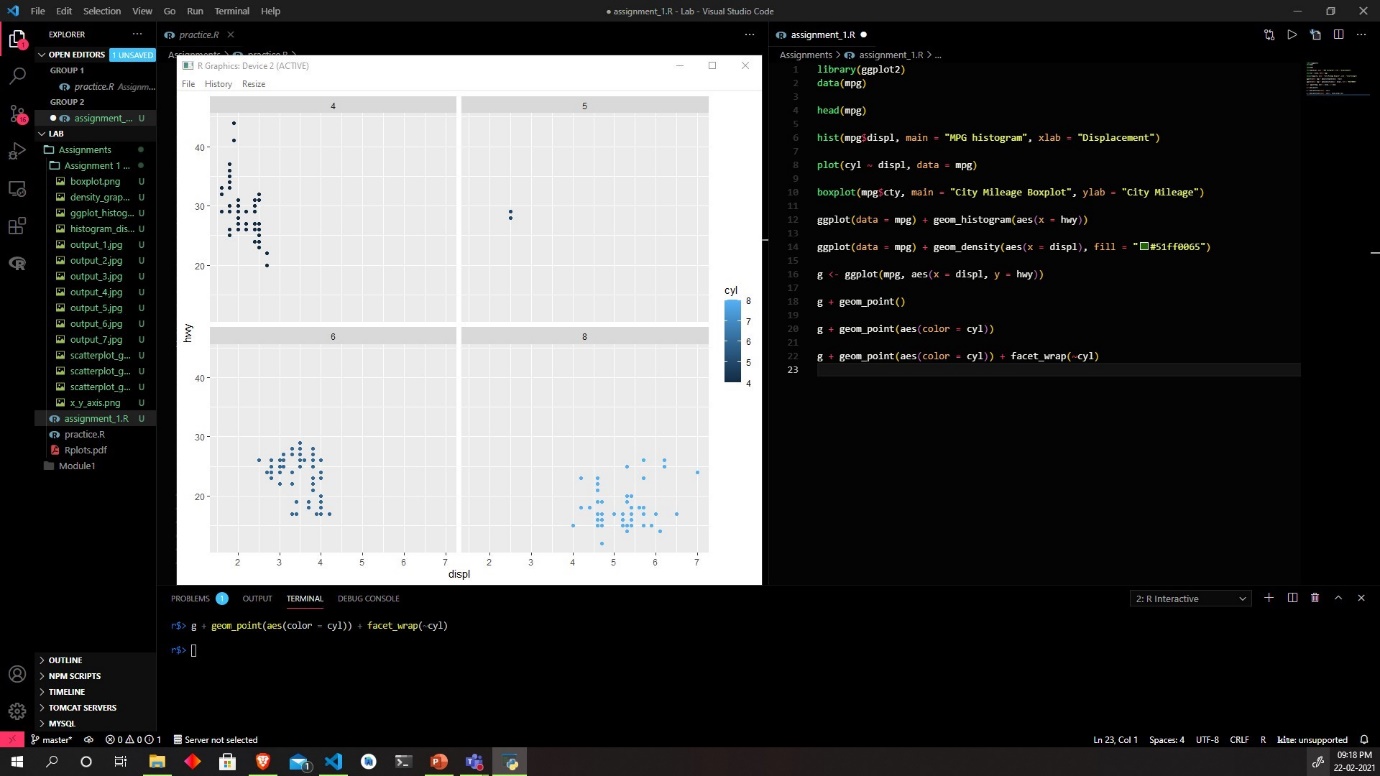


Code:

g + geom\_point(aes(color = cyl))

8)

Image:

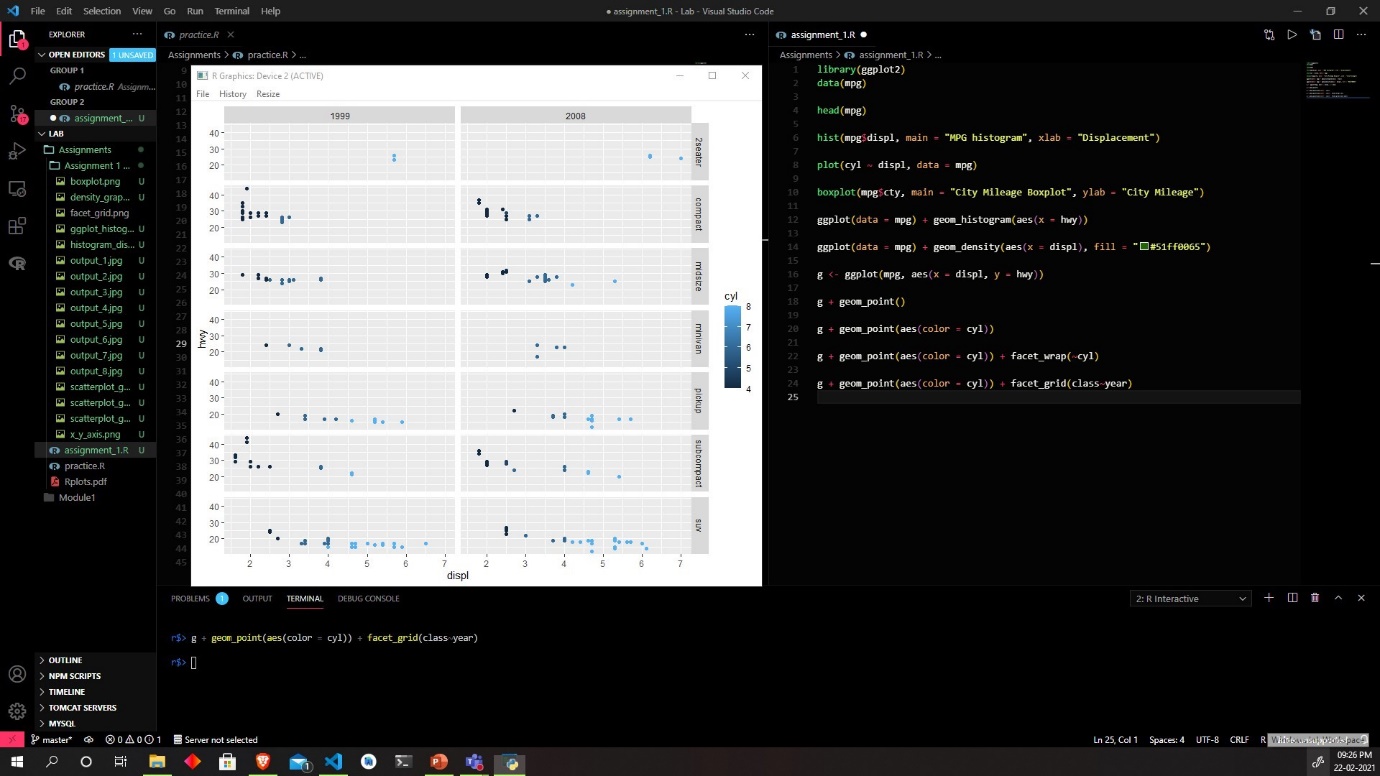


Code:

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

9)

Image:

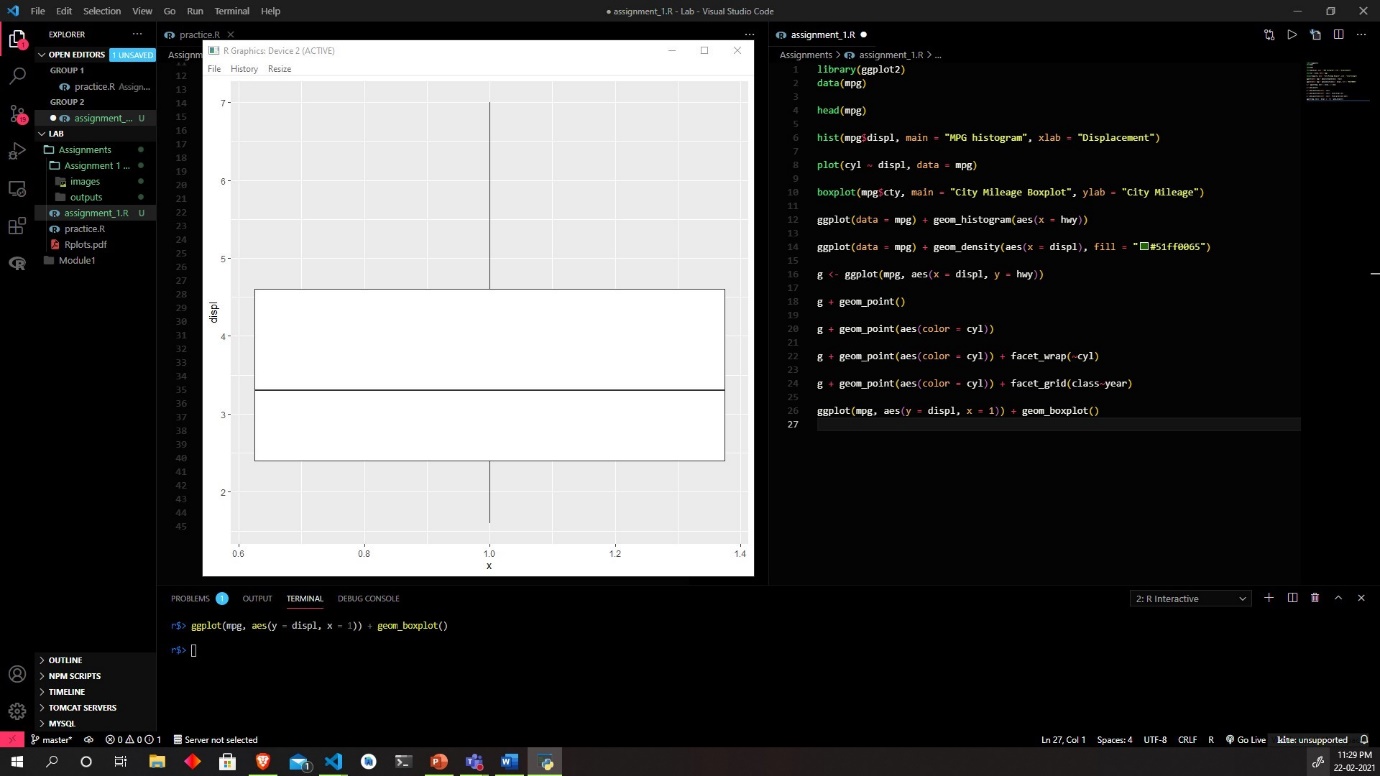


Code:

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

10)

Image:

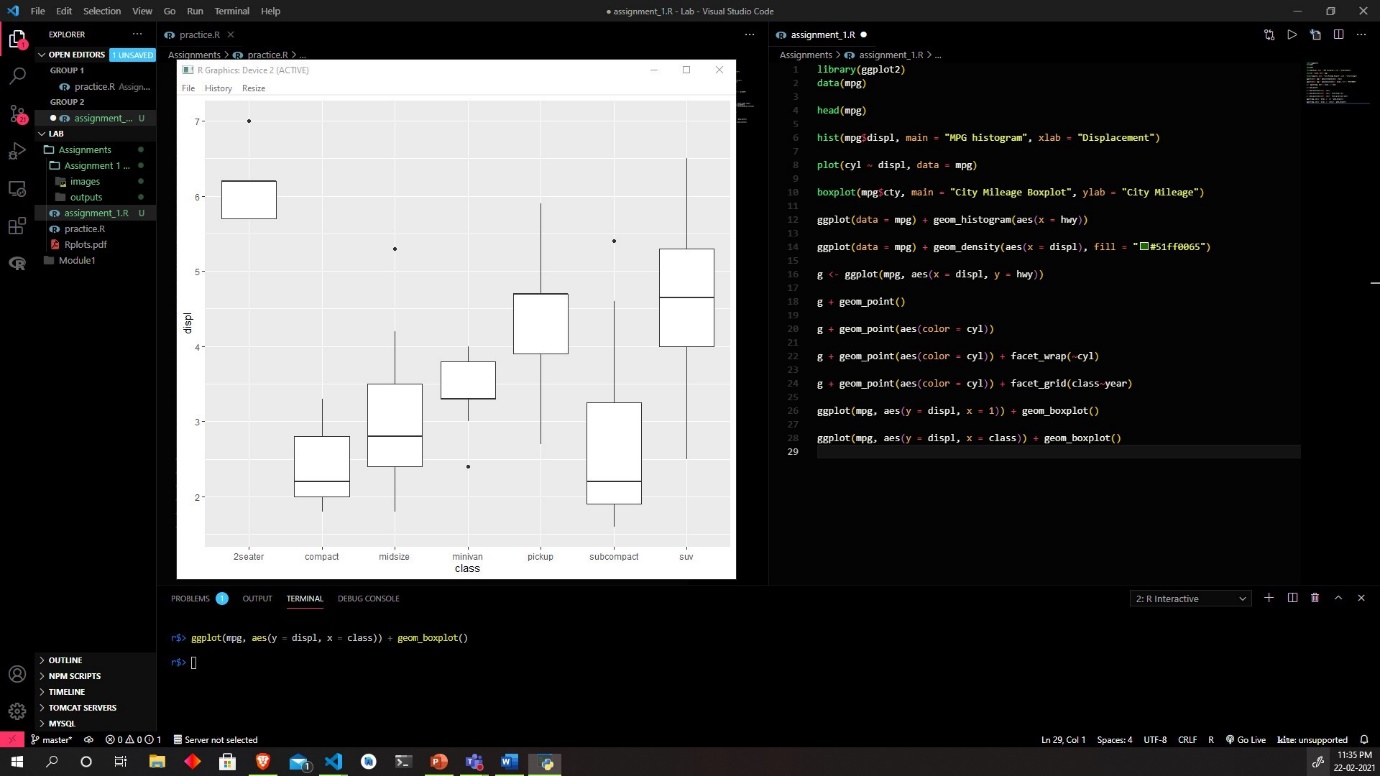


Code:

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

11)

Image:

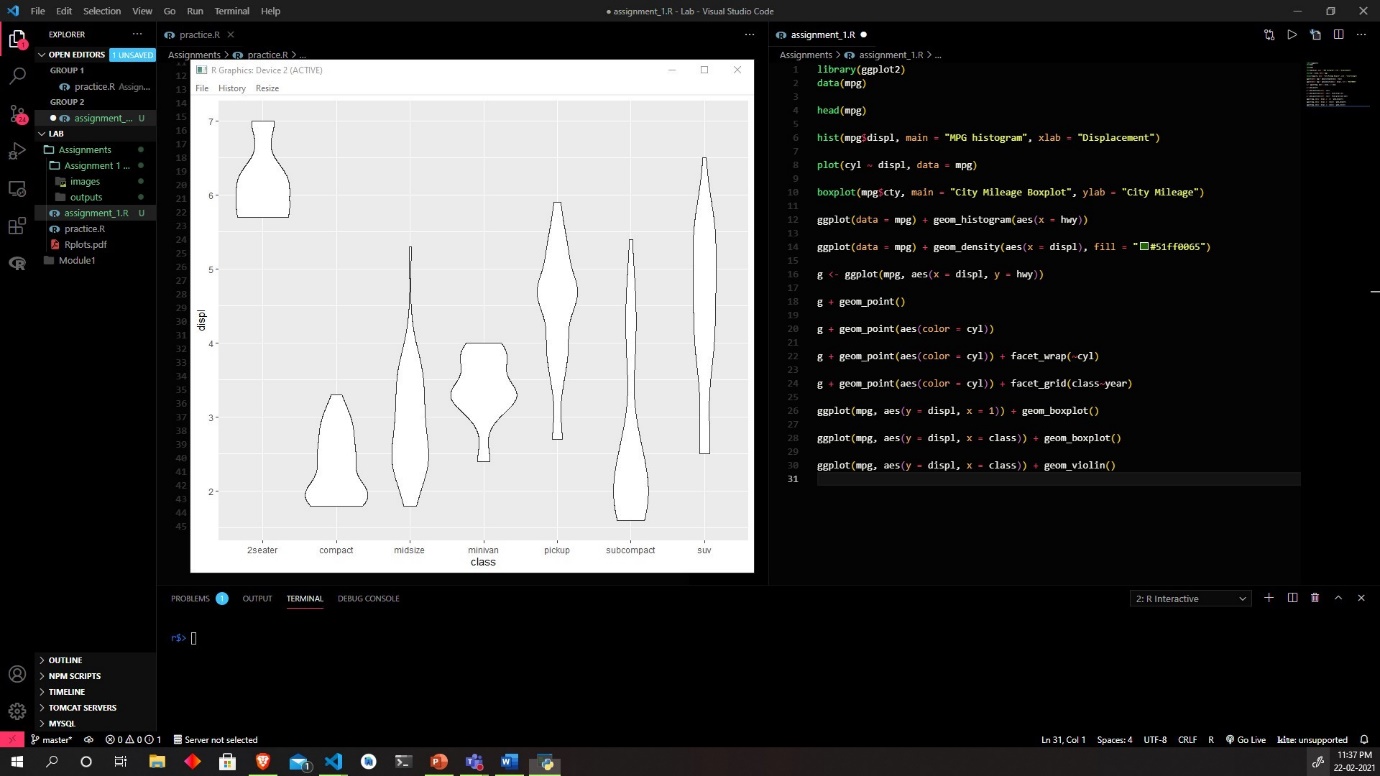


Code:

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

12)

Image:

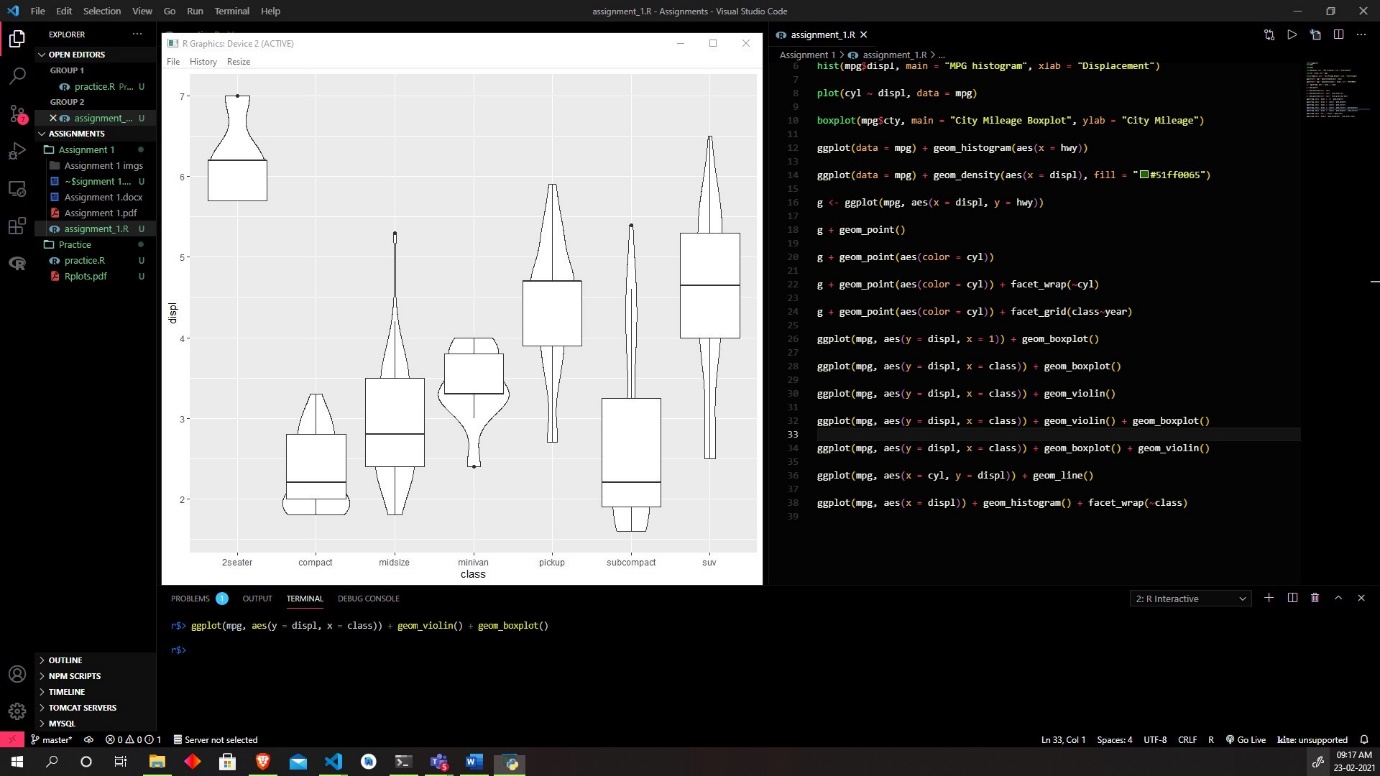


Code:

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

13)

Image:

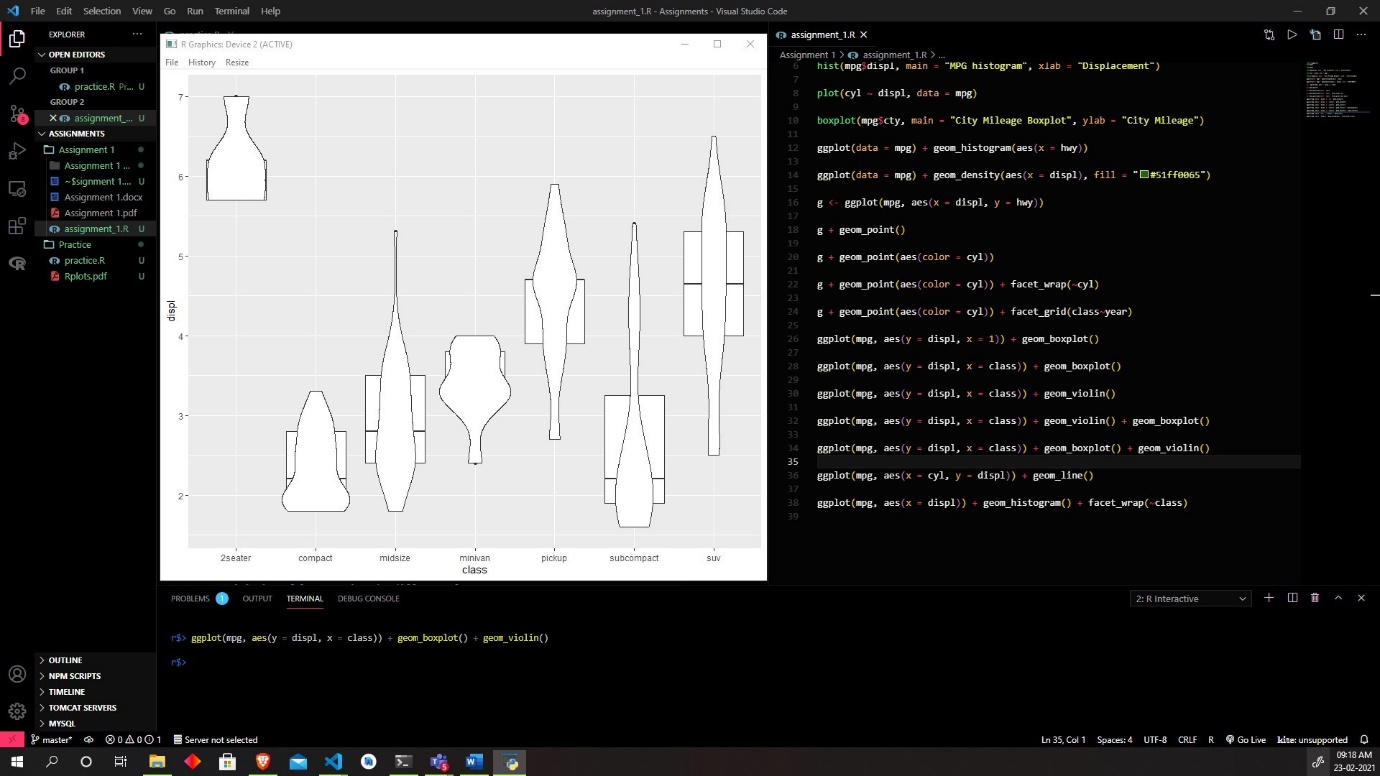


Code:

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

14)

Image:

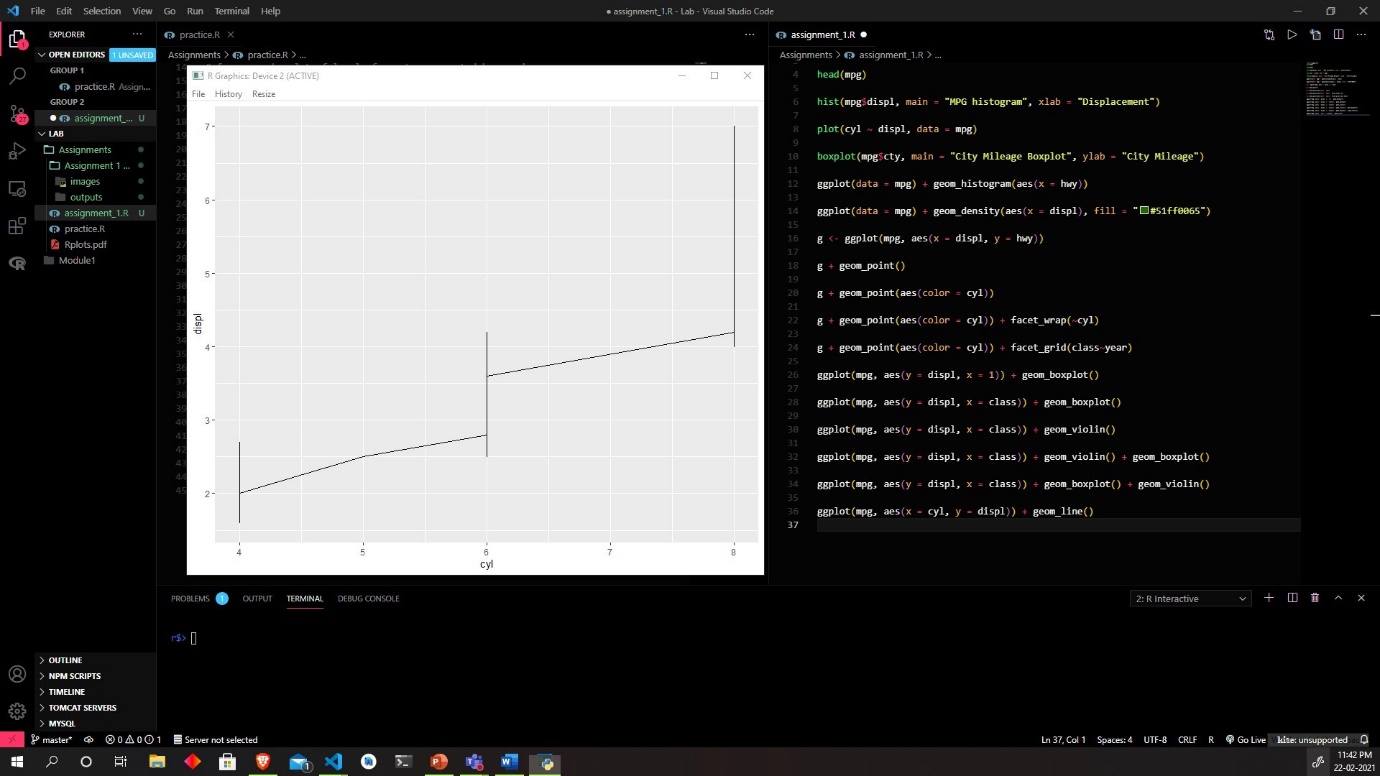


Code:

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

15)

Image:

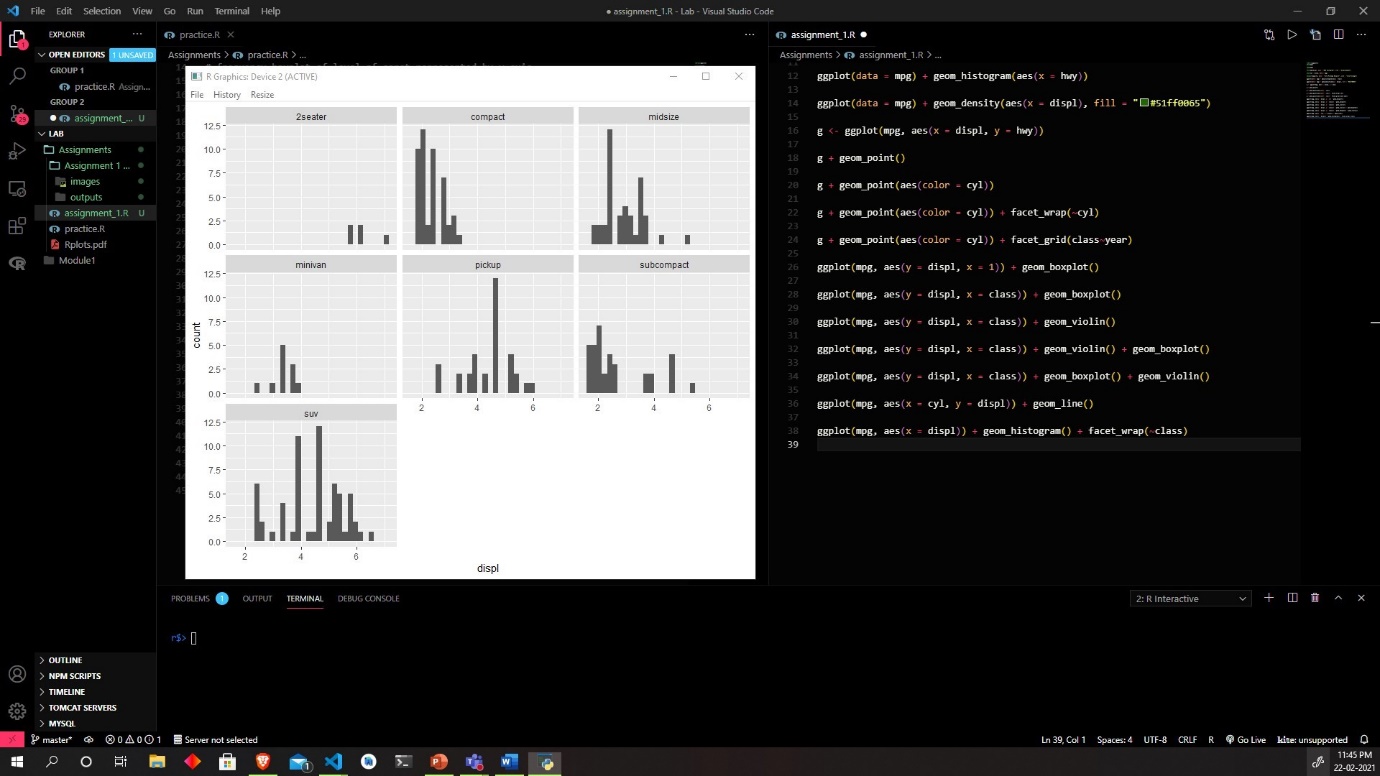


Code:

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

16)

Image:



Code :

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