CODE 1

```
library(ggplot2)

?mpg

View(mpg)


#scatterplot

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy))


ggplot(data = mpg, mapping = aes(x = displ, y = hwy )) + 1eom._point()


View(mpg)

#ggplot(data = <DATA>) + #<GEOM_FUNCTION>(mapping = aes(<mappings>))

#ggplot(data = <DATA>, mapping = aes(<mappings>)) + # <GEOM_FUNCTION>()


ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, colour = class))


ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, size = class))

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, alpha = class))

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, shape = class))

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy), colour = "blue")


#faceting

#facet wrap

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, colour = class)) + facet_wrap(~class,
nrow = 2)


#facet grid

ggplot(data = mpg) + 1eom._point(mapping = aes(x = displ, y = hwy, colour = class)) + facet_grid(drv ~
cyl)
```

CODE 2

```
viano data<- read.table("C:/Users/GODWIN  IYEKE/Documents/pm25_data/RD_501_88101_1999-0.txt",
comment.char = "#", header = FALSE ,sep = "|", na.strings = "" )
```

```
viano data<- read.table("C:/Users/GODWIN IYEKE/Documents/pm25_data/RD_501_88101_2012-0.txt",
comment.char = "#", header = FALSE ,sep = "|", na.strings = "" )


dim(viano.data)

View(viano.data)

head(viano.data)

tail(viano.data)


csharp <- readLines("C:/Users/GODWIN IYEKE/Documents/pm25_data/RD_501_88101_1999-0.txt", 1)

csharp

csharpparts <- strsplit(csharp,"|", fixed = TRUE)

csharpparts


names(viano.data) <- csharpparts[[1]]

head(viano.data)

View(viano.data)

names(viano.data) <- make.names(csharpparts[[1]])


head(viano.data)

View(viano.data)
```