SESSION 7: Basic Statistics

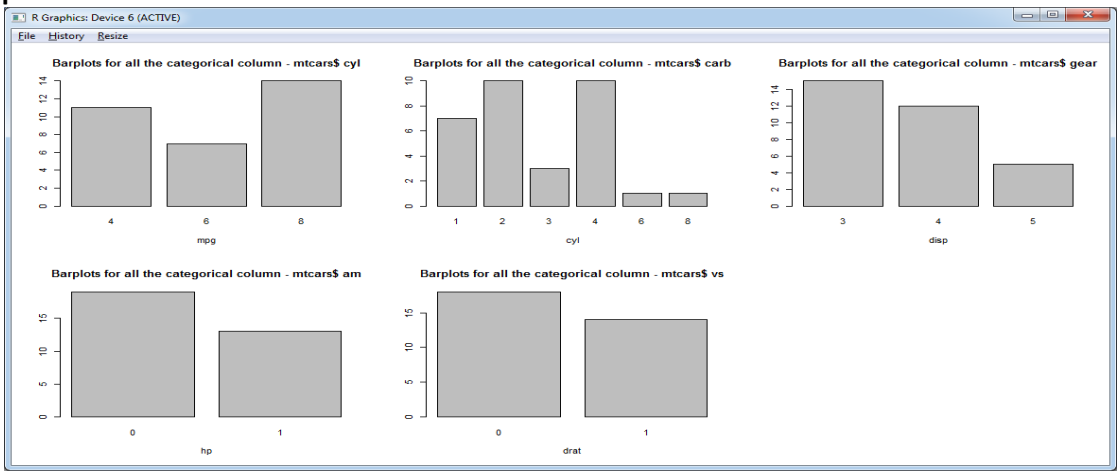
Assignment 2

1. Write a program to create barplots for all the categorical columns in mtcars.

Answer:

```
library(dplyr)
windows(width=100,height=50)
par(mfrow=c(2,3))
catoMtcars<-select(mtcars,cyl,carb,gear,am,vs)
for (i in 1:length(catoMtcars)){
  barplot(table(catoMtcars[,i]), xlab=colnames(mtcars)[i],
    main =paste("Barplots for all the categorical column - mtcars$", colnames(catoMtcars)[i]))
}
```

Output:

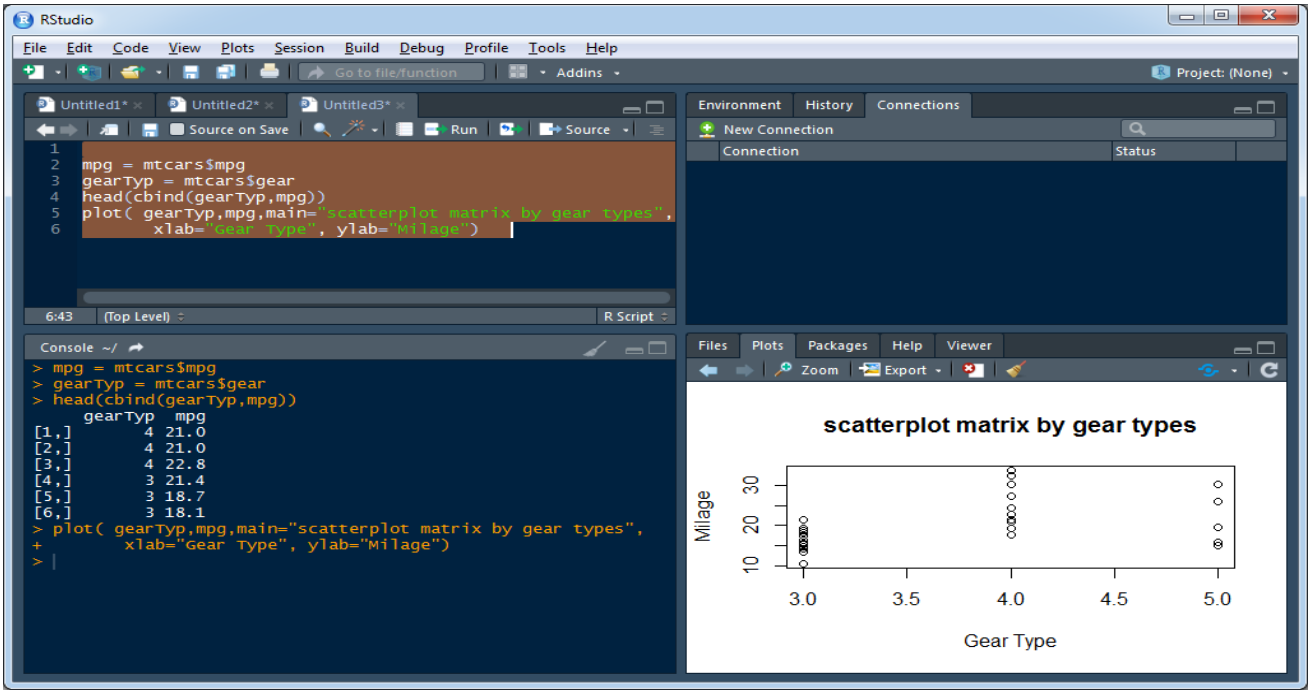


2. Create a scatterplot matrix by gear types in mtcars dataset.

Answer:

```
mpg = mtcars$mpg
gearTyp = mtcars$gear
head(cbind(gearTyp,mpg))
plot( gearTyp,mpg,xlab="Gear Type", ylab="Milage")
```

Output:



3. Write a program to create a plot density by class variable.

Answer:

```
windows()
par(mfrow=c(3,4))
for (i in 1:length(mtcars)){
 d <- density(mtcars[,1])
 plot(d, xlab=colnames(mtcars)[i], main =paste("Density Of mtcars$",colnames(mtcars)[i]))
}
```

Output: