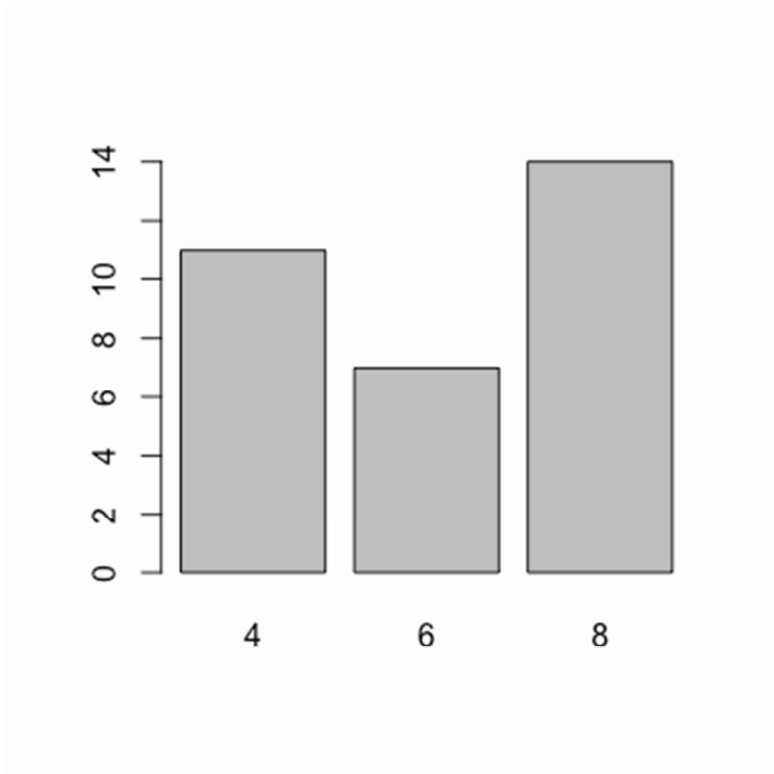
ACADGILD ASSIGNMENT 7.2

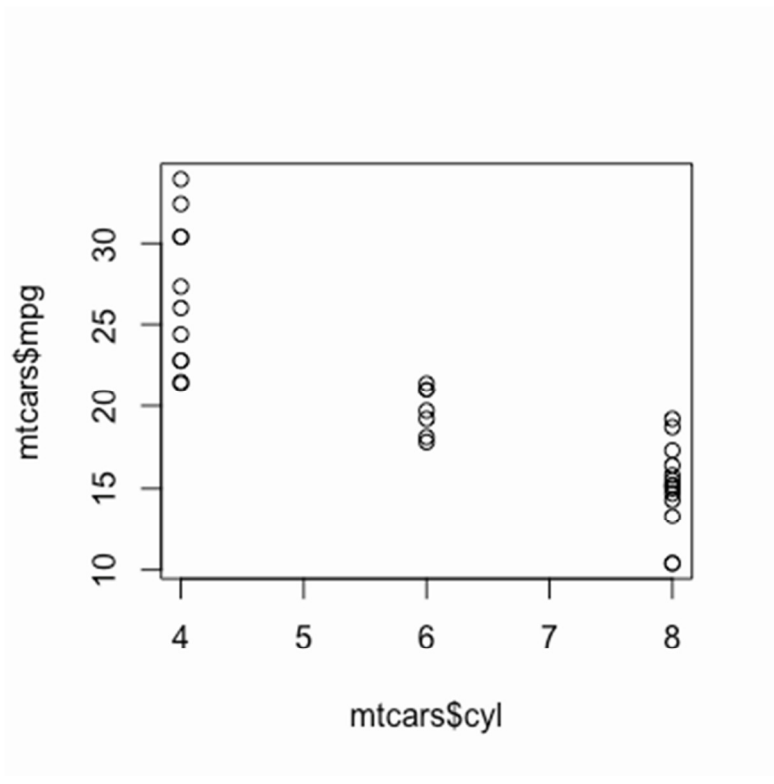
1. **Write a program to create barplots for all the categorical columns in mtcars.**

```
# the cylinder variable in the mtcars dataset is made up of values of 4, 6 & 8
mtcars$cyl
##  [1] 6 6 4 6 8 6 8 4 4 6 6 8 8 8 8 8 8 4 4 4 4 8 8 8 8 4 4 4 8 6 8 4

# get the count of 4, 6 & 8 cylinder cars in the dataset
table(mtcars$cyl)
##
##  4  6  8
## 11  7 14

# plot the count of 4, 6 & 8 cylinder cars in the dataset
barplot(table(mtcars$cyl))
```



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

```
# if x is not a factor it will produce a scatter plot
plot(mtcars$cyl, mtcars$mpg)
```



2. Write a program to create a plot density by class variable
ANSWER:

```
class(mtcars)

#plot density of mpg variable
d<- density(mtcars$mpg)
plot(d, main="kernel density of mpg")
polygon(d,col="red",border ="black")

#plot density of disp variable
c<- density(mtcars$disp)
plot(c, main="kernel density of disp")
polygon(c,col="brown",border ="red")
```