

SESSION 7 – ASSIGNMENT 7.2

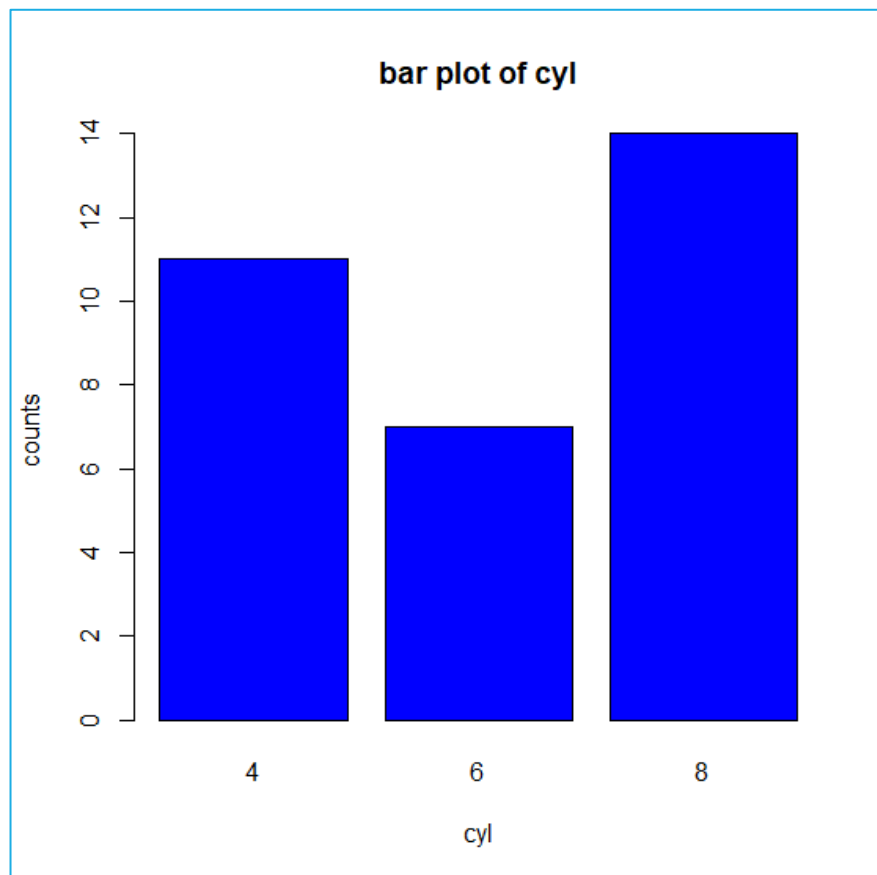
Date: 29th Jan 2019

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

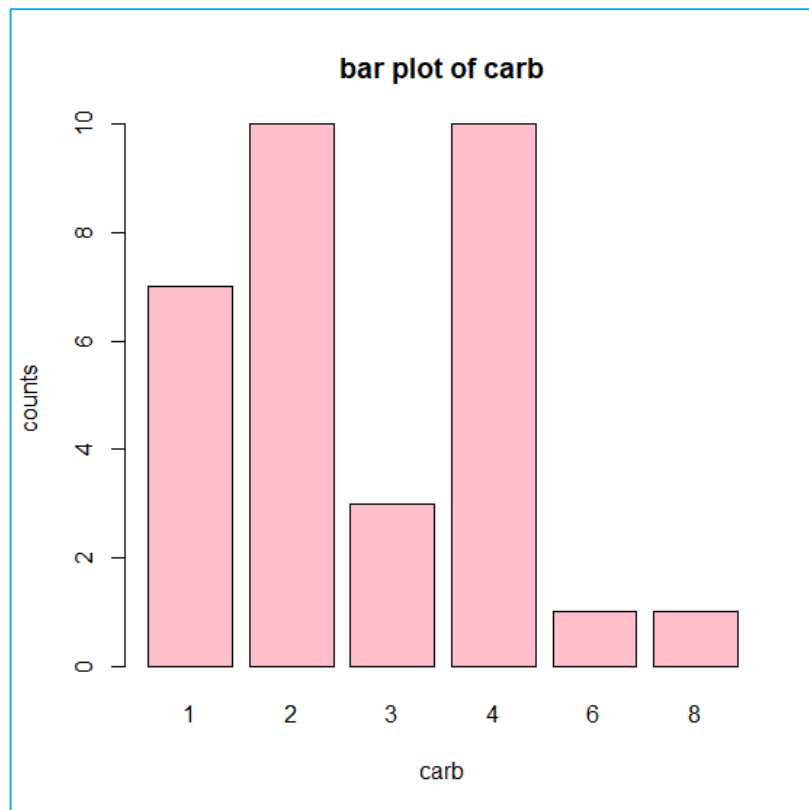
```
library(ggplot2)
```

```
counts<- table(mtcars$cyl)
```

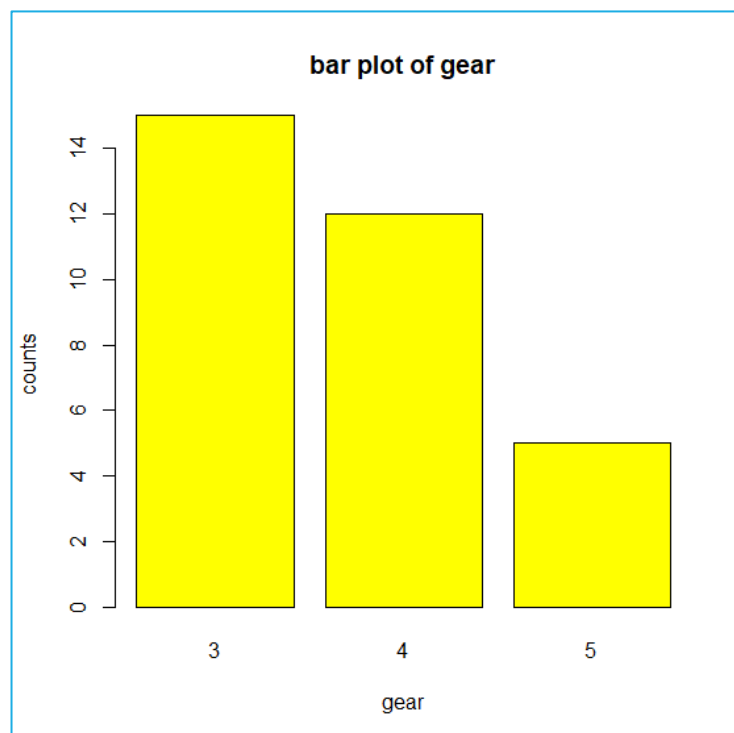
```
barplot(counts ,main ="bar plot of cyl",xlab="cyl",ylab = "counts",col="blue")
```



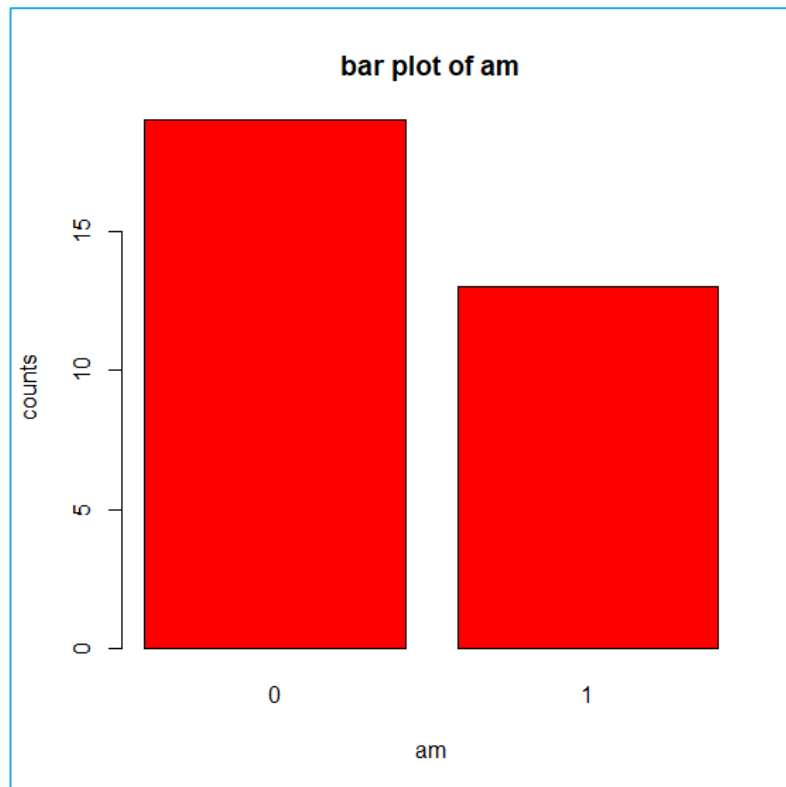
```
counts<- table(mtcars$carb)  
barplot(counts ,main ="bar plot of carb",xlab="carb",ylab = "counts",col="pink")
```



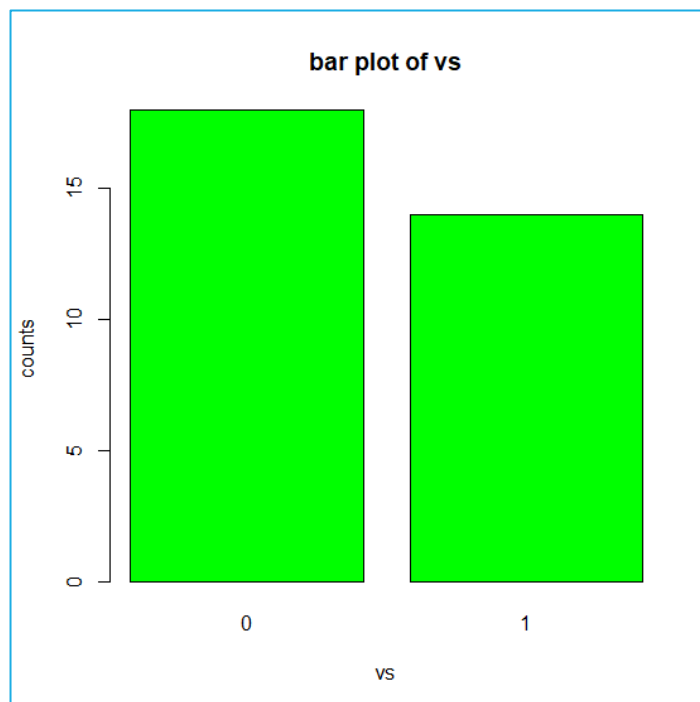
```
counts<- table(mtcars$gear)  
barplot(counts ,main ="bar plot of gear",xlab="gear",ylab = "counts",col="yellow")
```



```
counts<- table(mtcars$am)  
barplot(counts ,main ="bar plot of am",xlab="am",ylab = "counts",col="red")
```

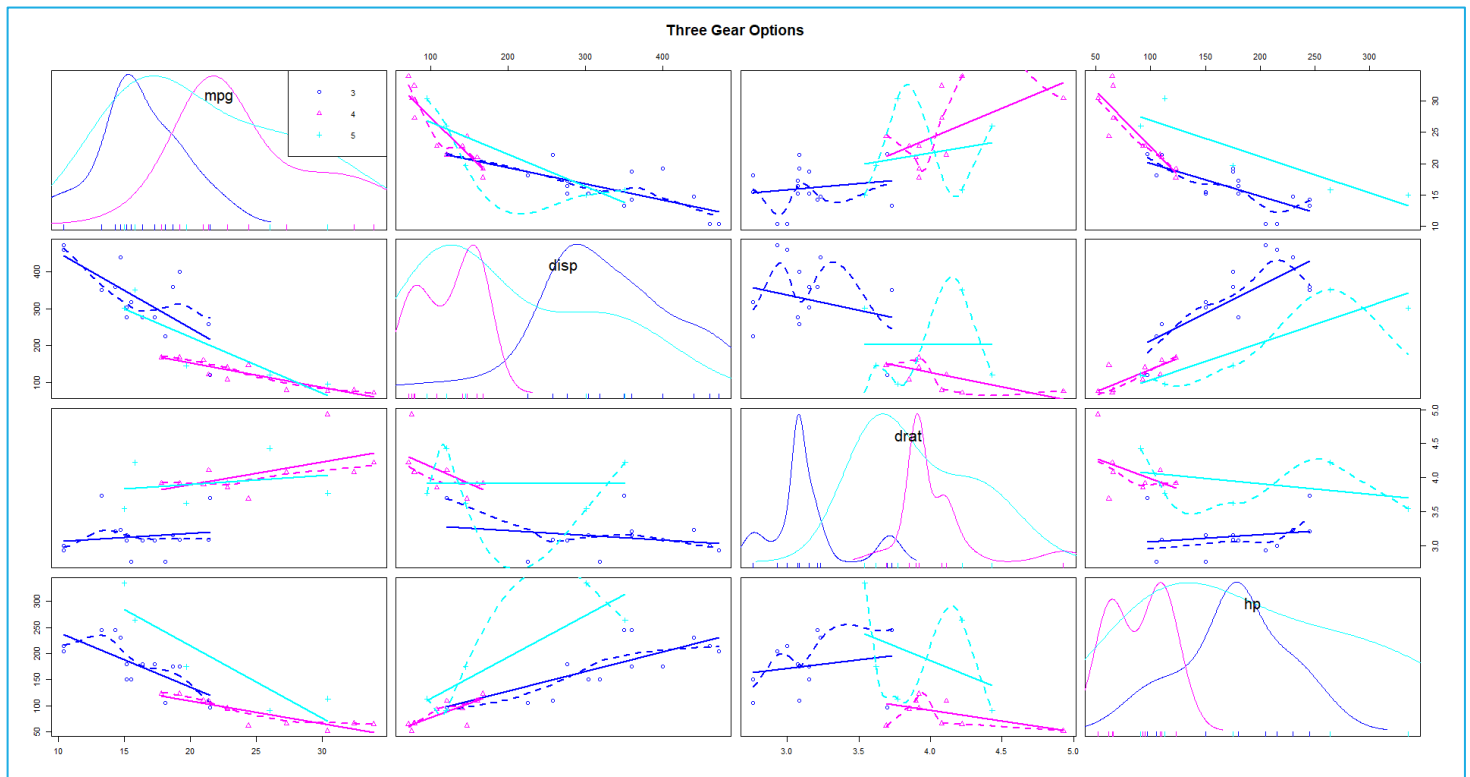


```
counts<- table(mtcars$vs)  
barplot(counts ,main ="bar plot of vs",xlab="vs",ylab = "counts",col="green")
```



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

```
library(ggplot2)
library(car)
scatterplotMatrix(~mpg+disp+drat+hp|gear,data=mtcars,
  main="Three Gear Options")
```



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

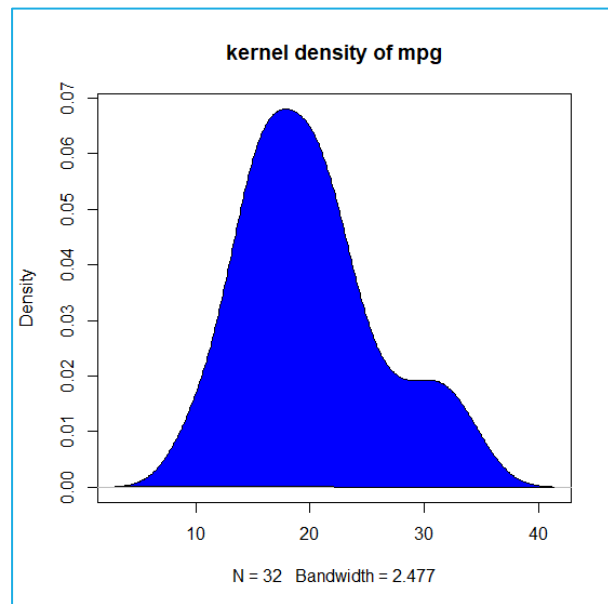
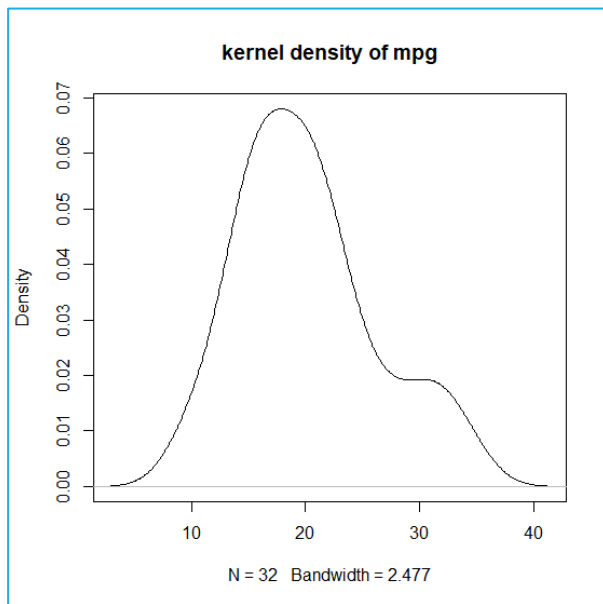
```
class(mtcars)
```

```
#plot density of mpg variable
```

```
d<- density(mtcars$mpg)
```

```
plot(d, main="kernel density of mpg")
```

```
polygon(d,col="blue",border ="black")
```



```
#plot density of disp variable
```

```
c<- density(mtcars$disp)
```

```
plot(c, main="kernel density of disp")
```

```
polygon(c,col="green",border ="red")
```

