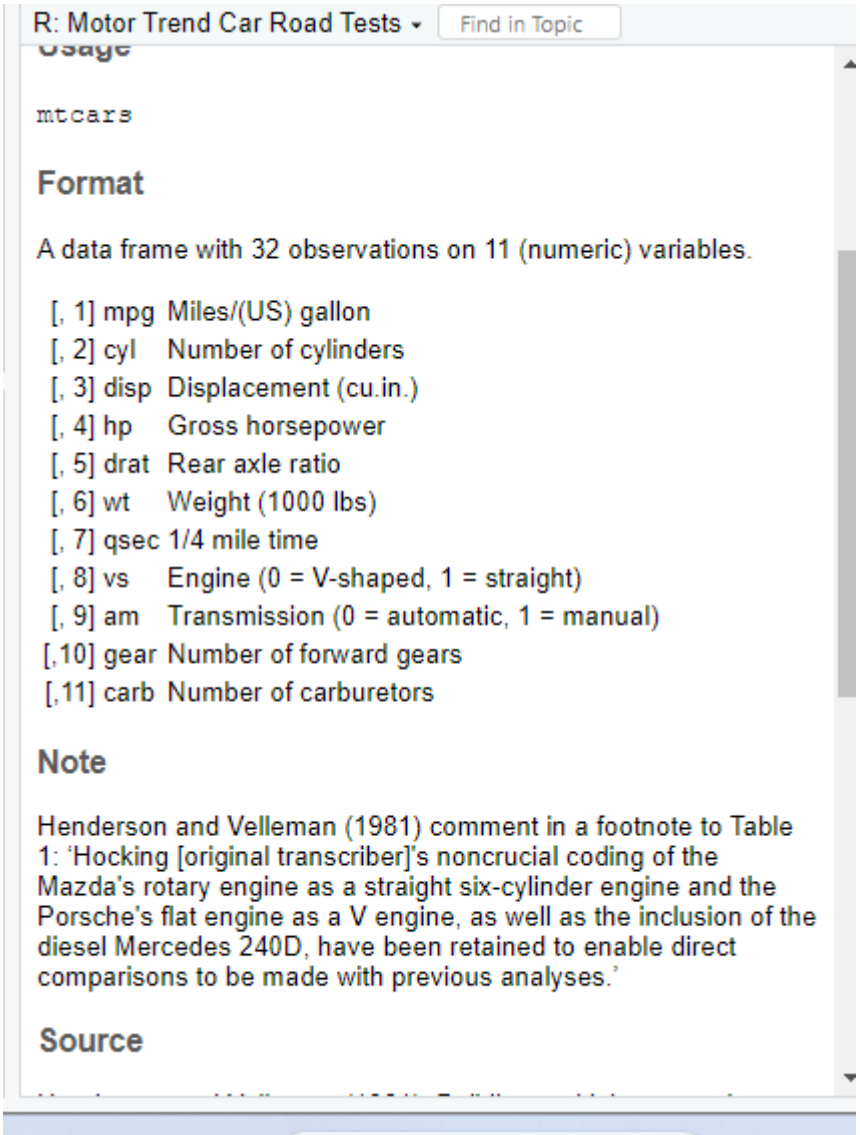
This lesson teaches how to use R to create the bar chart.

Step 1: Load the dataset.

```
print("Load the datasets package")
library(datasets)
```

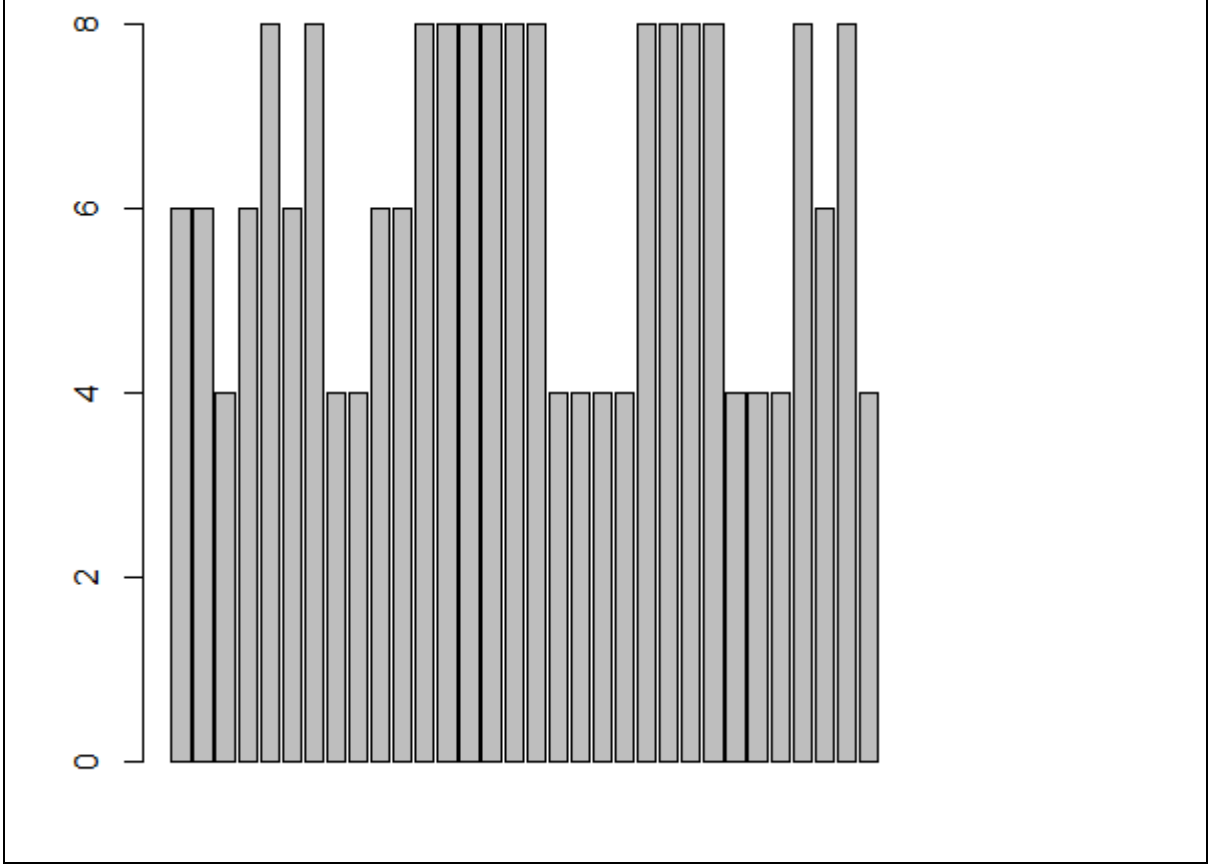
Step 2: Explore the mtcars dataset

```
print("getting the documentes of mtcars dataset with ?")
?mtcars
```



Step 3: Plot using the barplot function()

```
print("Use bar chart to visualize the cyl variable")
barplot(mtcars$cyl)
```



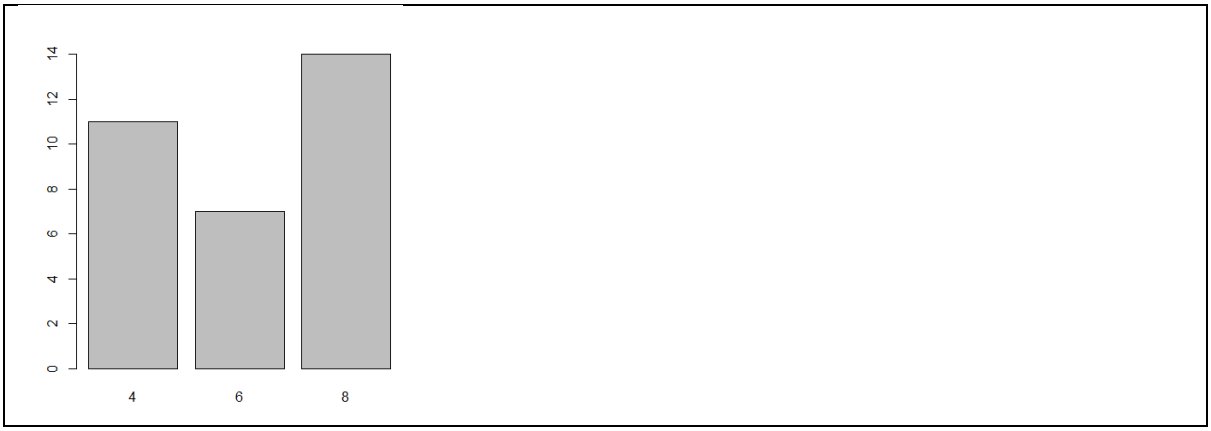
Step 4: Create a frequency table to calculate the occurrence for each value

```
cylinder <- table(mtcars$cyl)
print(cylinder)
```

```
 4  6  8
11  7 14
```

Step 4: plot bar graph for frequency table

```
17  barplot(cylinder)
18
```



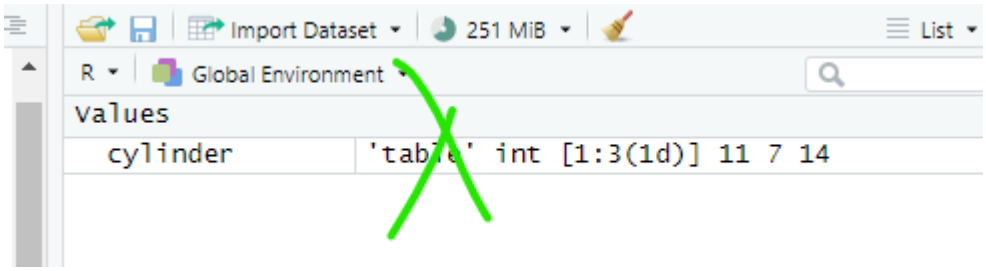
Step 5:

```
# CLEAN UP ####################################################
print("Clear the environment")
rm(list = ls())

print("detach the package")
detach("package:datasets", unload = TRUE)  # For base

print("Clear the plotted graph")
dev.off()  # But only if there IS a plot

print("Use control l to remove the console")
cat("\014")  # ctrl+L
```



Will remove this the rm(list = ls())

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dev.off() will remove the graph.

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Clear control using control L

cat("\014") # ctrl+L