Data Mining Lab (CSEN 3155) Lab Assignments - Day 4

- 1. Read the file "GrocBinary.csv" and answer the following questions:
 - (a) Identify all frequent item set with support at least 30%.
 - (b) Find out all association rules with support 40% and confidence 60%.
 - (c) Find out all the with support 30%, confidence 70% and lift > 1
- 2. Read file "auto-mpg.csv" into a data frame named "auto". Display the file. And also display the number of rows. columns and summary of the dataset. What are the column names?
- 3. Display the content of cylinders column.

R Factors

Factors in R Programming Language are data structures that are implemented categorize the data or represent categorical data and store it on multiple levels. They can be stored as integers with a corresponding label to every unique integer. Try the following use of Factor

```
auto$cylinders <- factor(auto$cylinders,
levels = c(3,4,5,6,8),
labels = c("3cyl", "4cyl", "5cyl", "6cyl", "8cyl"))
```

- 4. Display how the content of cylinders column has changed.
- 5. Draw a histogram of acceleration with axis labels and titles.
- 6. Draw a histogram of mpg with axis labels and titles.
- 7. Draw a barplot of mpg with axis labels and titles.
- 8. Display the frequency count of cylinders and plot the frequency count.
- 9. Try these two box plots and interpret

10. What happens if you try the following

```
pairs(~mpg +displacement, data=auto)
pairs(~mpg +displacement+horsepower, data=auto)
```