We have implemented all classifier algorithms in R. Please follow the below steps to run the R code.

* There are two files for each classifier : script\_classifier. R and utility\_classifier. R. We have implemented the 10-fold cross validation and the accuracy and other parameter calculations in script\_classifier. R and the classifier implementation is in utility\_classifier. R .
* So open both .R files in RStudio.
* Modify the lines below lines to match your working directory and the datapath variable should have the link to the folder which has the data files provided for this homework.

setwd("~/study/CSE601/homework/hw3")

# set data path

dataset\_name = "project3\_dataset2"

* Install the required R packages if you get error when try run decision trees, as we some built-in functions to plot the trees.
* In every script file we have a section under the comment

1. **#k-fold cross validation (implementing 10 - fold cross validation)**

Over here we perform 10-fold cross validation. The implementation of all the algorithms are in **utility\_classifier.R**. and we invoke these function in the section under comment 1. Please look for lines where we invoke these function to change any parameters passed to them. The general structure of these lines as below

**predicted\_label <- classifier\_name(parameters)**