# week 4 Assignment

# 1. Given column names of dataframe, how to change column name "State" to "Territory"

colnames(iris)[which(names(iris)=="State")] <- "Territory"

# 2. Melt data with respect to Factor A and Factor B variables

factor <- read.csv("C:/Users/rshars/Documents/week4.csv")

library(reshape)

melt(factor,id= c("FactorA","FactorB"))

# 3. Consider a second set of data where there are two groups but we only want to retain the FactorB variable in the molten data set:

factor1 <- read.csv("C:/Users/rshars/Documents/week4\_1.csv")

melt(factor1,id="FactorB",measure.vars = c("Group1","Group2"))

# 4. Create a search engine Function

# For Given dataframe. Create a function with input data frame and word to get the row index in which the word in the sentence is present

search <- read.csv("C:/Users/rshars/Documents/week4\_2.csv")

search\_engine = function(x,y) {

temp <- paste0("\\b",y,"\\b")

return(grep(temp,x[,1],value = F,ignore.case = T))

}

search\_engine(search,"A")