**Experiment 7**

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AIM: Write a program to perform Sentiment Analysis

**Code:**

library(tidyverse)

library(SnowballC)

library(tm)

df<-read.csv("Sentiment.csv")

summary(df)

head(df)

df<-df[c(16,6)]

head(df)

str(df)

round(prop.table(table(df$sentiment)),2)

corpus <- VCorpus(VectorSource(df$text))

as.character(corpus[[1]])

corpus <- tm\_map(corpus, content\_transformer(tolower))

corpus <- tm\_map(corpus, removeNumbers)

corpus <- tm\_map(corpus, removePunctuation)

corpus <- tm\_map(corpus, removeWords, stopwords("english"))

corpus <- tm\_map(corpus, stemDocument)

corpus <- tm\_map(corpus, stripWhitespace)

as.character(corpus[[1]])

dtm <- DocumentTermMatrix(corpus)

dtm

dim(dtm)

dtm <- removeSparseTerms(dtm, 0.999)

dim(dtm)

inspect(dtm[0:10, 1:15])

freq<- sort(colSums(as.matrix(dtm)), decreasing=TRUE)

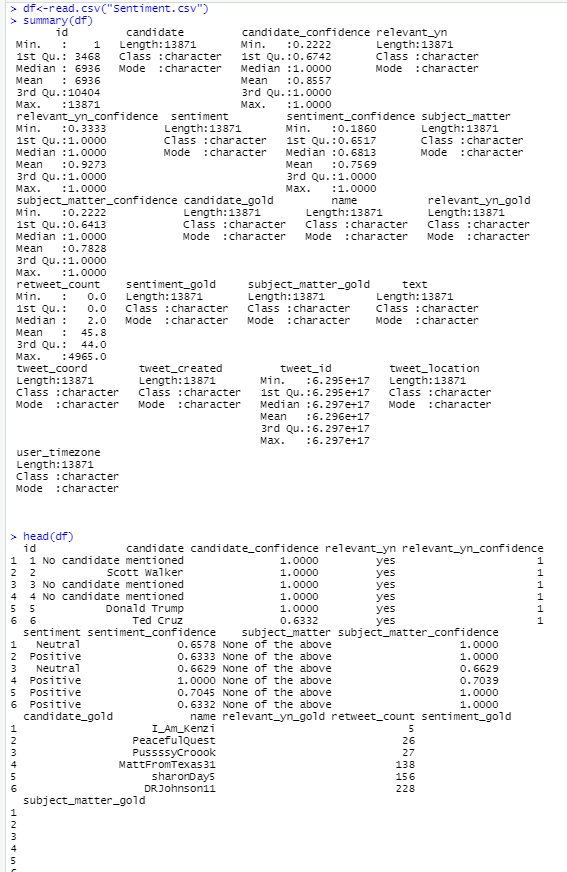
findFreqTerms(dtm, lowfreq=60)

library(ggplot2)

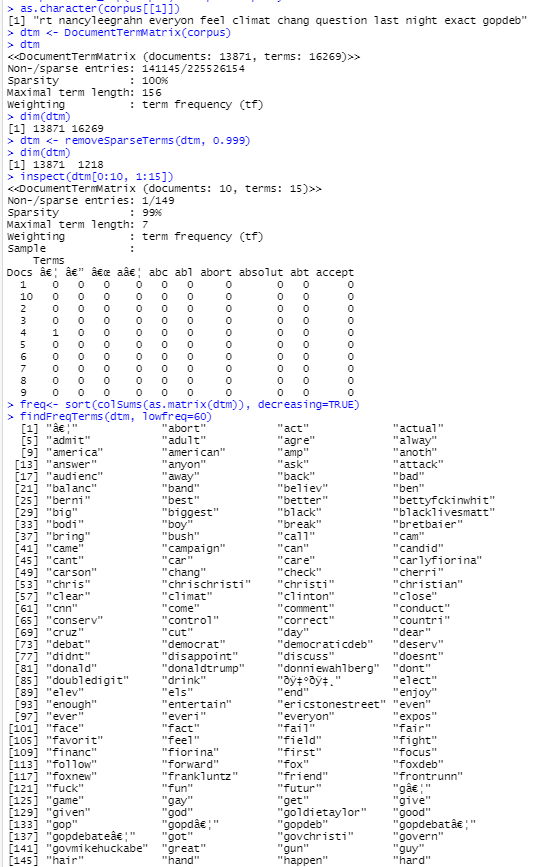
wf<- data.frame(word=names(freq), freq=freq)

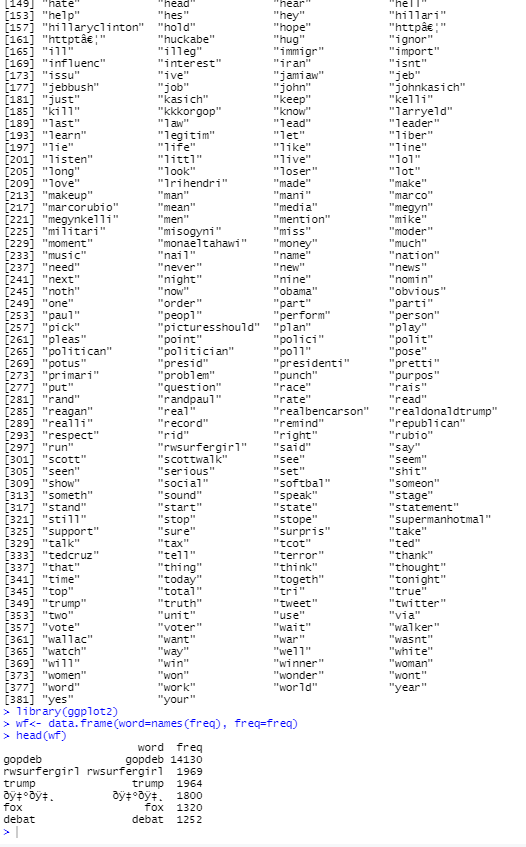
head(wf)

**OUTPUT:**

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