**Experiment 8**

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AIM: Write a program to perform Sentiment Analysis part 2

**Code:**

library("wordcloud")

positive <- subset(df,sentiment=="Positive")

head(positive)

wordcloud(positive$text, max.words = 100, scale = c(3,0.5))

negative <- subset(df,sentiment=="Negative")

head(negative)

wordcloud(negative$text, max.words = 100, scale = c(3,0.5))

neutral <- subset(df,sentiment=="Neutral")

head(neutral)

wordcloud(neutral$text, max.words = 100, scale = c(3,0.5))

convert\_count <- function(x) {

y <- ifelse(x > 0, 1,0)

y <- factor(y, levels=c(0,1), labels=c("No", "Yes"))

y

}

datasetNB <- apply(dtm, 2, convert\_count)

dataset = as.data.frame(as.matrix(datasetNB))

dataset$Class = df$sentiment

dataset<-na.omit(dataset)

str(dataset$Class)

head(dataset)

dim(dataset)

set.seed(222)

split = sample(2,nrow(dataset),prob = c(0.75,0.25),replace = TRUE)

train\_set = dataset[split == 1,]

test\_set = dataset[split == 2,]

prop.table(table(train\_set$Class))

prop.table(table(test\_set$Class))

library(e1071)

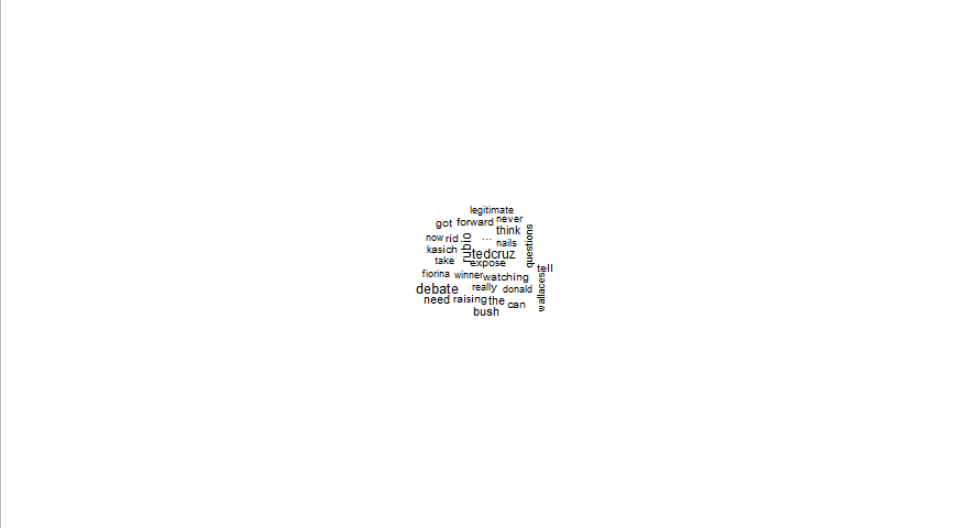
svm\_classifier <- svm(Class~., data=train\_set,type = "C")

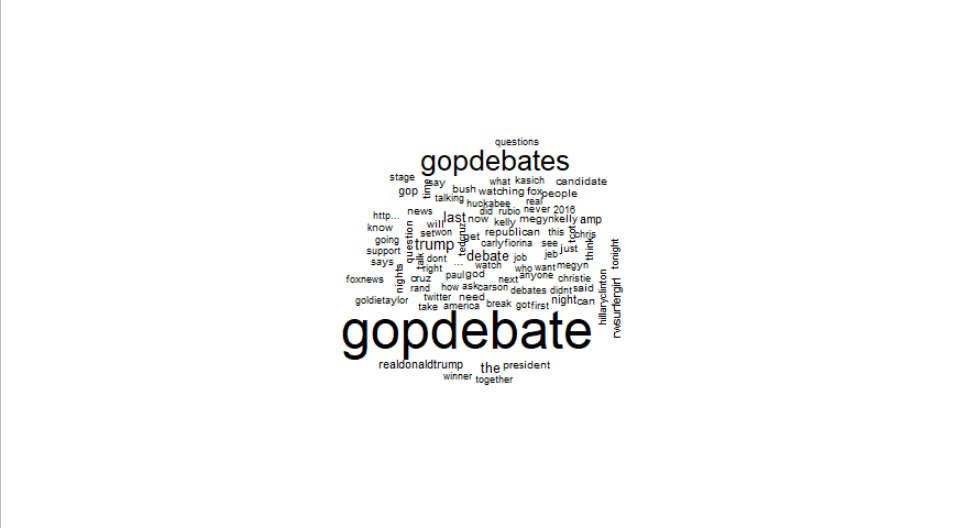
svm\_classifier

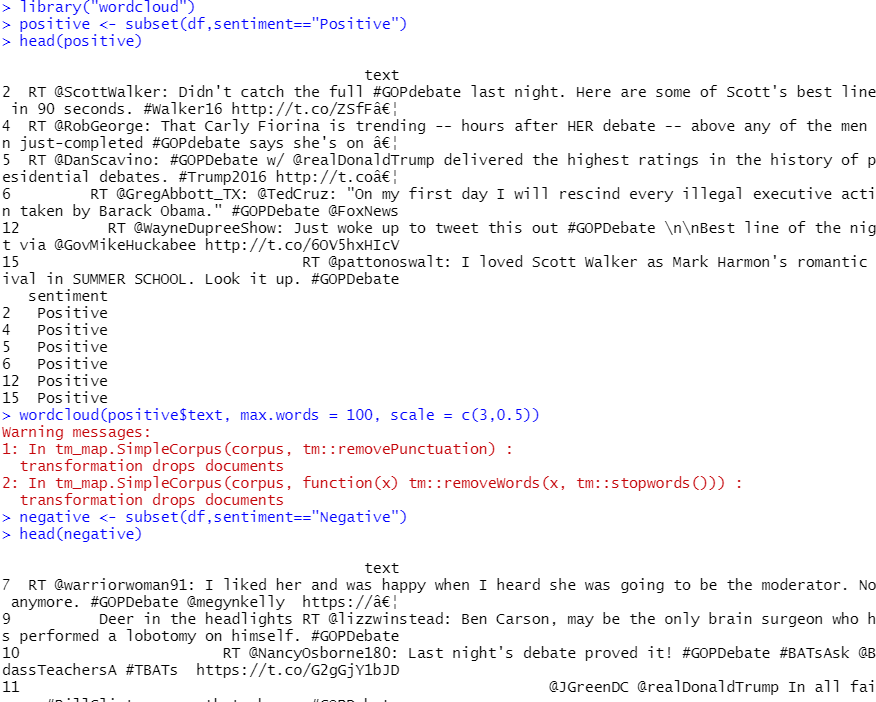
svm\_pred = predict(svm\_classifier,test\_set)

confusionMatrix(svm\_pred,test\_set$Class)

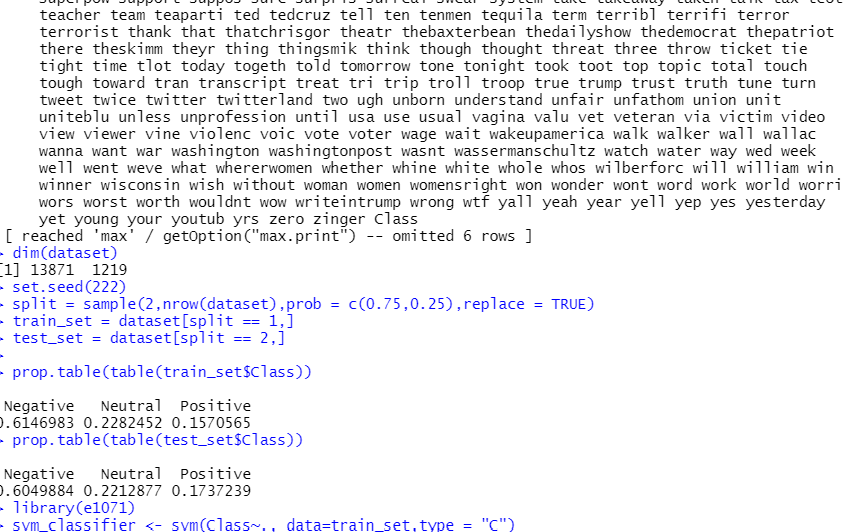
**OUTPUT**





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