Brexit Data Sentiment Analysis

Question 1

```
library(readr)
library(tm)
library(SnowballC)
library(wordcloud)
library(wordcloud2)
library(readxl)
Brexit <- read_excel("Brexit2017.xlsx")
```

Brexit2017=Corpus(VectorSource(Brexit\$...17))

```
Brexit2017=tm_map(Brexit2017,content_transformer(tolower))
Brexit2017=tm_map(Brexit2017, removeWords, stopwords('english'))
Brexit2017=tm_map(Brexit2017, removePunctuation)
Brexit2017=tm_map(Brexit2017, removeNumbers)
Brexit2017=tm_map(Brexit2017, stripWhitespace)
```

StripString=content_transformer(function(x,pattern) gsub(pattern,",x))
Brexit2017=tm_map(Brexit2017,StripString('[\r\n]'))
Brexit2017=tm_map(Brexit2017,StripString,'[\t]')
Brexit2017=tm_map(Brexit2017, StripString, 'http[[:alnum:]]*')

Brexit2017=tm_map(Brexit2017, removewords, c('Brexit', 'brexit'))
Brexit2017=tm_map(Brexit2017, stemDocument)

View(as.matrix(TermDocumentMatrix(Brexit2017)))
DTM= DocumentTermMatrix(Brexit2017)
DTM=removeSparseTerms(DTM, 0.99)
findFreqTerms(DTM, 40)

```
[1] "democracy"
                       "gina"
                                         "https..."
                                                           "miller"
                                                                            "back"
                                                                                              "brexit"
                       "need"
                                                                                              "parliament"
 [7] "court"
                                         "news"
                                                           "supreme"
                                                                            "article"
[13] "say"
                       "triggering"
                                         "british"
                                                           "get"
                                                                            "going"
                                                                                              "leave'
[19] "people"
[25] "case"
                                                                            "que"
                       "voted"
                                                           "parlamento"
                                                                                              "corte"
                       "must"
                                         "vote"
                                                          "approval"
                                                                            "government"
                                                                                              "ruled"
                                        "can"
                                                                            "says"
[31] "will"
                       "ruling"
                                                          "trigger"
                                                                                              "sturgeon"
[37] "may"
[43] "..."
                       "rules"
                                         "httpstco..."
                                                          "referendum"
                                                                            "uksupremecourt" "without"
                                                                                              "whether'
                       "delay"
                                         "process"
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[49] "theresa"
                      "via"
                                        "business"
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[55] "para"
                      "america"
                                        "britain"
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[61] "htt..."
                                        "norway..."
                       "lukeisnotsexy"
                                                           "president"
                                                                            "russia"
                                                                                              "tangerine"
[67] "theres"
[73] "trump"
                                        "amp"
                                                                            "decision"
                                                                                              "scotland"
                       "torn"
                                                           "deal"
                      "supremecourt"
                                         "del"
                                                           "hard"
                                                                            "good"
                                                                                              "one"
                                        "todays"
[79] "today"
                       "bbcbreaking"
                                                                            "tories"
                                                                                              "uklabour"
                                                           "support"
[85] "well"
                       "labour"
                                         "give'
                                                           "httpst..."
                                                                            "breaking"
                                                                                              "tells'
                                                                                               "just"
[91] "want"
                       "skynews"
                                         "now"
                                                           "govt"
[97] "mean"
                                                                                              "sovereignty"
                       "claimant"
                                         "see"
                                                           "judaes"
                                                                            "theresamay"
"lead"
                                                           "final"
                                                                             "stop"
                                                                                              "davis"
                       "remain"
[109] "ukip
                       "boycott"
                                         "world"
```

The 100 most common words are the words before "lead" inclusive.

Question 2

library(syuzhet)
PosNeg=data.frame(text = sapply(Brexit2017, as.character),
stringsAsFactors = FALSE)

Sentiment=get sentiment(PosNeg\$text)

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[1] 0.00 1.65 0.50 0.50 -0.75 0.50 0.00
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[443]
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[460]
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[494]
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Γ511<sub>7</sub>
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      0.00
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                   1.00
                        -1.50
                               -0.75 -0.10
                                            0.00
                                                  -0.40
                                                        -0.40
                                                              -0.85
                                                                     -1.00
                                                                           0.00
                                                                                 0.25
                                                                                       -0.50
                                                                                             -1.00
                                                                                                    0.80
                                                                                                          -0.25
Γ8347
       0.00
             0.00
                   0.00 0.00 -1.50 -1.75
                                            0.00
                                                  0.25 0.00
                                                              0.50
                                                                     0.60
                                                                           -1.05 -1.05 -1.05 -1.00
                                                                                                    -0.10 -0.65
                   0.00 -0.10 -0.10 -0.10 -1.00 -1.60
                                                        -1.60
                                                               0.80
                                                                     1.65
                                                                           3.45
                                                                                 1.25
                                                                                        0.00 -1.10
```

```
0.50
            0.50 0.00 0.00 -0.10 -1.00 -0.90 -1.35 -0.25 -0.50 0.00 0.00 0.00 0.00
                                                                                          0.50 -1.00
      0.00 0.25 -0.10 -0.10 -0.10 -0.95 1.10 -0.95 1.00 0.50 0.50 -0.30 1.90 -1.00 0.00 0.00 1.30 0.65 0.00 0.00 0.00 -0.30 -0.75 0.35 1.25 -0.75 0.50 -2.00 0.00 0.60 0.60 -0.25
[783]
                                                                                                      1.30
[800]
                                                                                                      0.00
[817] 0.00 1.00 1.00 -1.50 -0.75 -0.10 0.00 -0.40 -0.40 -0.85 -1.00 0.00 0.25 -0.50 -1.00 0.80 -0.25
[834] 0.00 0.00 0.00 0.00 -1.50 -1.75 0.00 0.25 0.00 0.50 0.60 -1.05 -1.05 -1.05 -1.00 -0.10 -0.65
[851] 0.00 0.00 0.00 -0.10 -0.10 -0.10 -1.00 -1.60 -1.60 0.80 1.65 3.45 1.25 0.00 -1.10 0.00 -1.75 [868] 0.75 0.50 0.50 -1.20 0.00 0.00 1.10 1.00 1.00 0.60 1.70 1.70 -1.00 -0.75 1.00 1.35 1.10
[885] -1.50 2.10 -1.75 0.15 0.80 0.50 0.50 -0.25 -0.75 1.70 1.70 -0.25 -1.00 -1.10 0.50 -0.75
[902] -1.10 0.25 0.30 0.30 0.00 -0.55 0.25 0.25 0.25 0.25 0.25 0.25 -0.40 0.00 1.30 1.30 1.35
0.60
                                                                                                      0.00
[953] 0.00 0.00 0.00 0.00 0.90 0.90 0.00 -0.25 0.25 0.25 0.00 1.00 0.50 0.75 -1.00 -0.75 0.00 -0.40
[970] -1.00 0.50 0.75 0.50 -0.80 -1.85 -1.85 0.50 1.35 0.50 0.50 0.65 0.50 0.25 1.25 1.55 -0.25
      1.30 -1.10 0.40 -1.10 -1.25 0.50 0.50 -1.10 -1.00
                                                           -1.10
                                                                        1.35
                                                                             0.25
                                                                                    0.25
                                                                  0.00
```

Positive numbers are positive tweets, negative numbers are negative tweets and 0.00 are neutral tweets.

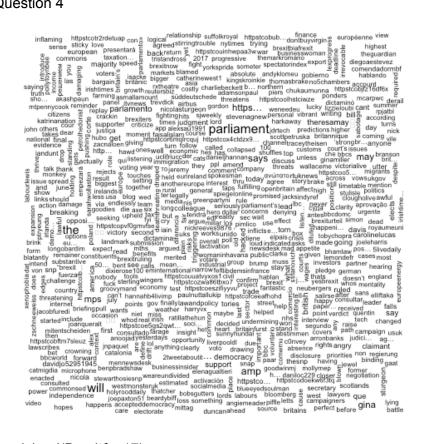
Question 3

BrexitPolarity<- BrexitPolarity[order(BrexitPolarity),] view(BrexitPolarity)

Top10Neg=head(BrexitPolarity, 10)
Top10Neg

Top10Pos=tail(BrexitPolarity, 10)
Top10Pos

```
anger: num 0 0 1 1 0 0 0 0 0 1 ...
anticipation: num 0 0 1 2 0 1 0 0 0 0 ...
disgust: num 0 0 0 0 0 0 0 0 1 ...
fear: num 0 0 1 2 0 0 0 0 0 1 ...
joy: num 0 0 0 0 0 0 0 0 0 0 ...
sadness: num 0 0 0 0 1 0 0 0 0 1 ...
surprise: num 0 0 0 0 1 0 0 0 0 0 ...
trust: num 0 1 0 1 0 0 0 0 0 0 ...
negative: num 0 0 0 0 1 0 0 0 0 0 ...
positive: num 0 3 1 1 0 1 0 0 0 0 ...
```



wordcloud(Brexit\$...17) (Brexit\$...17=Corpus(DirSource('Tweets')))



wordcloud(Brexit\$...17, min.freq=50, max.words=100, vfont=c('gothic italian', 'plain'), random.order=FALSE, scale=c(5,0.5), rot.per=.3, color=brewer.pal(8,'Dark2')[c(2,4,8)])

This word cloud is looking at words that have a minimum frequency of 50 words so it is much cleaner than the previous word cloud.



Shows most popular hashtags used-wordcloud(Brexit\$...20, min.freq=50, max.words=100, vfont=c('gothic italian','plain'), random.order=FALSE, scale=c(5,0.5), rot.per=.3, color=brewer.pal(8,'Dark2')[c(2,4,8)])