

Question 3

```
library(tm)
```

```
## Loading required package: NLP
```

```
library(wordcloud)
```

```
## Loading required package: RColorBrewer
```

```
text <- readLines(file.choose())  
docs <- Corpus(VectorSource(text))  
docs <- tm_map(docs, tolower)
```

```
## Warning in tm_map.SimpleCorpus(docs, tolower): transformation drops documents
```

```
docs <- tm_map(docs, removeNumbers)
```

```
## Warning in tm_map.SimpleCorpus(docs, removeNumbers): transformation drops  
## documents
```

```
docs <- tm_map(docs, removePunctuation)
```

```
## Warning in tm_map.SimpleCorpus(docs, removePunctuation): transformation drops  
## documents
```

```
docs <- tm_map(docs, removeWords, stopwords("english"))
```

```
## Warning in tm_map.SimpleCorpus(docs, removeWords, stopwords("english")):  
## transformation drops documents
```

```
docs <- tm_map(docs, stripWhitespace)
```

```
## Warning in tm_map.SimpleCorpus(docs, stripWhitespace): transformation drops  
## documents
```

```
toSpace <- content_transformer(function(x, pattern) gsub(pattern, " ", x))  
docs <- tm_map(docs, toSpace, "/")
```

```
## Warning in tm_map.SimpleCorpus(docs, toSpace, "/"): transformation drops  
## documents
```

```
docs <- tm_map (docs, toSpace, "?")
```

```
## Warning in tm_map.SimpleCorpus(docs, toSpace, "?"): transformation drops  
## documents
```

```
docs <- tm_map (docs, toSpace, ",")
```

```
## Warning in tm_map.SimpleCorpus(docs, toSpace, ","): transformation drops  
## documents
```

```
docs <- tm_map (docs, toSpace, ".")
```

```
## Warning in tm_map.SimpleCorpus(docs, toSpace, "."): transformation drops  
## documents
```

```
docs <- tm_map (docs, toSpace, "@")
```

```
## Warning in tm_map.SimpleCorpus(docs, toSpace, "@"): transformation drops  
## documents
```

```
docs <- Corpus(VectorSource(text))  
docs <- tm_map(docs, removeWords, stopwords("english"))
```

```
## Warning in tm_map.SimpleCorpus(docs, removeWords, stopwords("english")):  
## transformation drops documents
```

```
dtm <- TermDocumentMatrix(docs)  
m <- as.matrix(dtm)  
v <- sort(rowSums(m), decreasing = TRUE)  
final <- data.frame(word = names(v) , freq = v)  
head(final, 10)
```

```
##           word freq  
## will         will 100  
## articles articles 64  
## the           the  40  
## project      project 39  
## website      website 38  
## research     research 37  
## user         user  36  
## database     database 36  
## article      article 36  
## phase        phase  36
```

```
wordcloud(words = final$word, freq = final$freq,min.freq = 10,max.words = 200 ,colors = brewer.pal(8, "l"))
```

