

INTERNAL PRACTICAL

AIM:

To implement basic functions and commands in R Programming. To build WordCloud, a text mining method using R for easy to understand and better visualization than a data table.

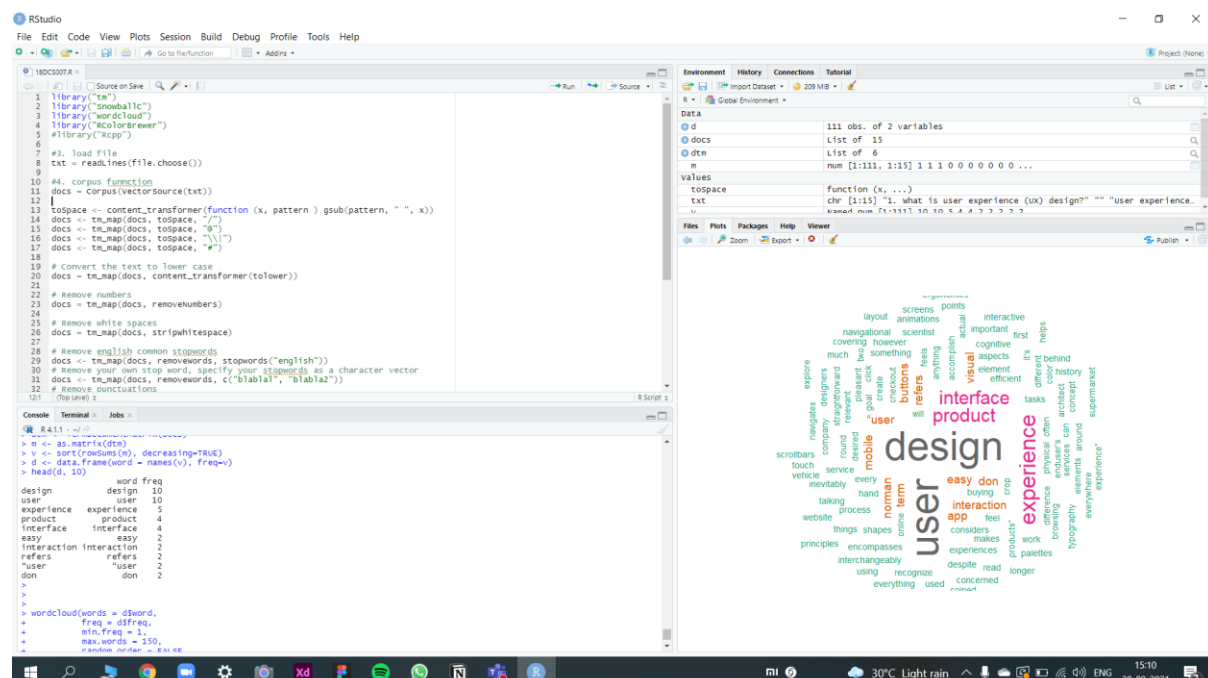
PRACTICAL:

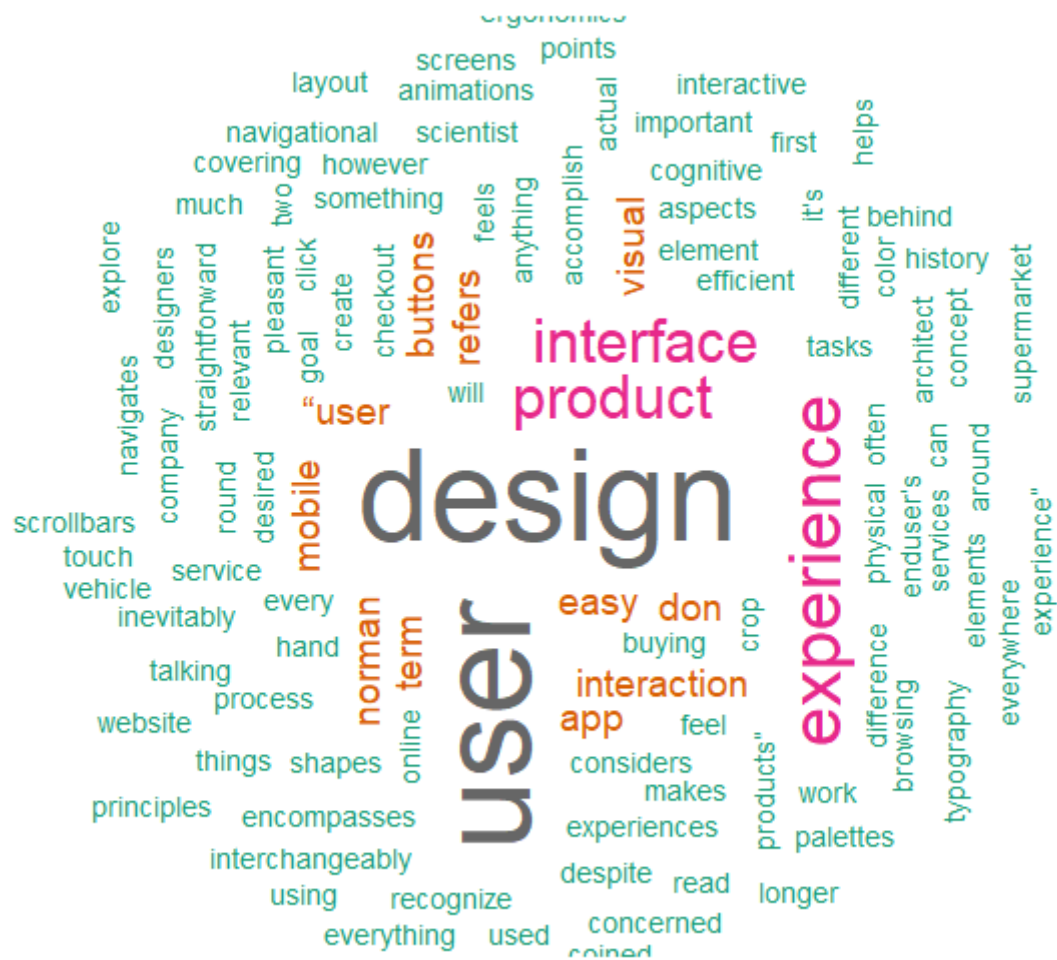
```
library("tm")
library("SnowballC")
library("wordcloud")
library("RColorBrewer")
# library("Rcpp")
# load file
txt = readLines(file.choose())
# corpus funnction
docs = Corpus(VectorSource(txt))
toSpace <- content_transformer(function (x, pattern ) gsub(pattern, " ", x))
docs <- tm_map(docs, toSpace, "/")
docs <- tm_map(docs, toSpace, "@")
docs <- tm_map(docs, toSpace, "\\")
docs <- tm_map(docs, toSpace, "#")
# Convert the text to lower case
docs = tm_map(docs, content_transformer(tolower))
# Remove numbers
docs = tm_map(docs, removeNumbers)
# Remove white spaces
docs = tm_map(docs, stripWhitespace)
# Remove english common stopwords
docs <- tm_map(docs, removeWords, stopwords("english"))
# Remove your own stop word, specify your stopwords as a character vector
docs <- tm_map(docs, removeWords, c("blablal", "blabla2"))
# Remove punctuations
docs <- tm_map(docs, removePunctuation)
```

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

```
wordcloud(words = d$word,
          freq = d$freq,
          min.freq = 1,
          max.words = 150,
          random.order = FALSE,
          rot.per = 0.35,
          colors = brewer.pal(8, "Dark2"))
```

OUTPUT:





	word	freq
design	design	10
user	user	10
experience	experience	5
product	product	4
interface	interface	4
easy	easy	2
interaction	interaction	2
refers	refers	2
"user	"user	2
don	don	2

CONCLUSION:

In this practical, we learnt about R and implemented Word Cloud using R.