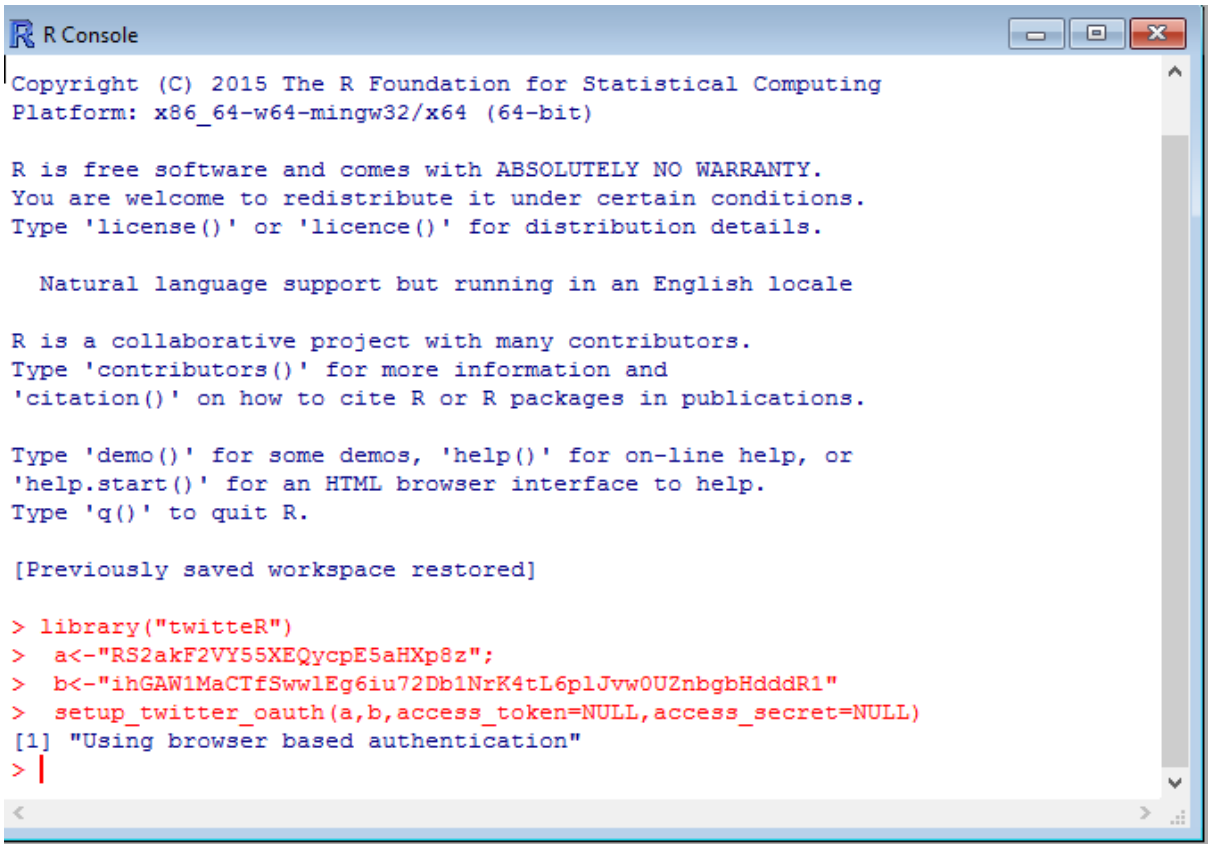
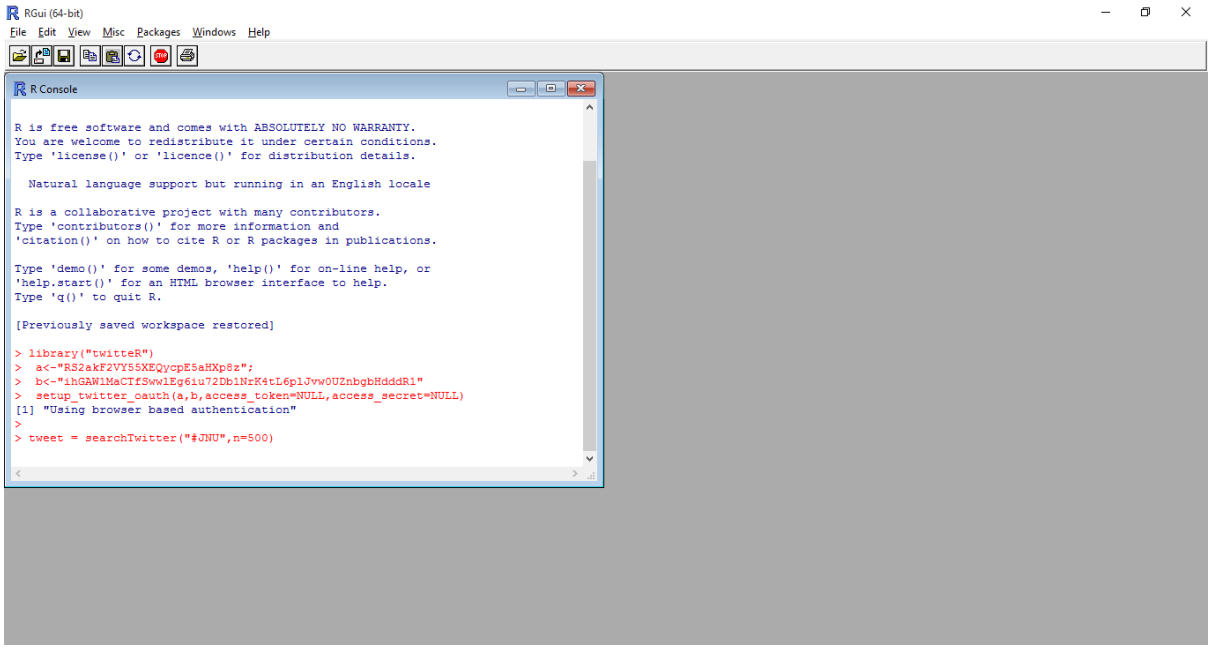
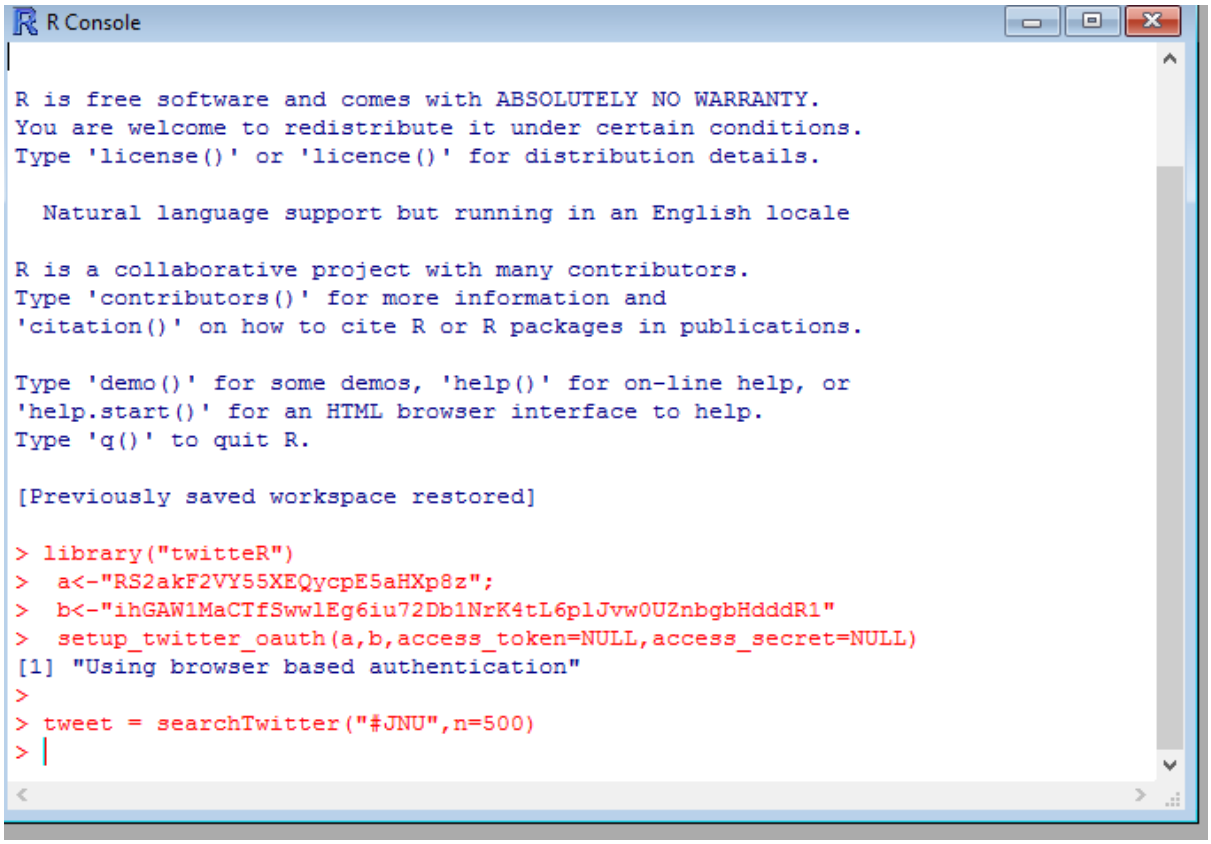
TWITTER ANALYSIS

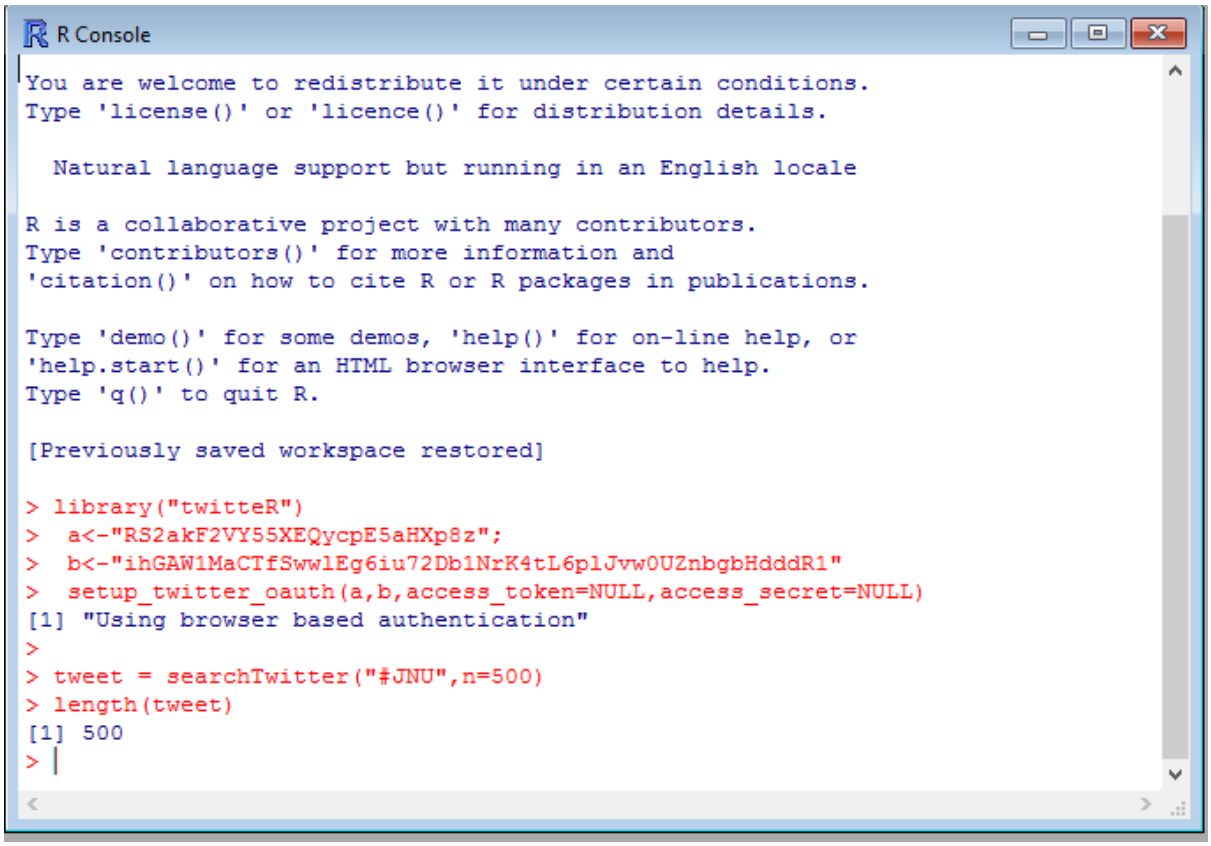
```
setwd("D:/LSDB");

library('twitteR')

a<-"RS2akF2VY55XEQycpE5aHXp8z";

b<-"ihGAW1MaCTfSwwlEg6iu72Db1NrK4tL6plJvw0UZnbgbHdddR1"

setup_twitter_oauth(a,b,access_token=NULL,access_secret=NULL)
```



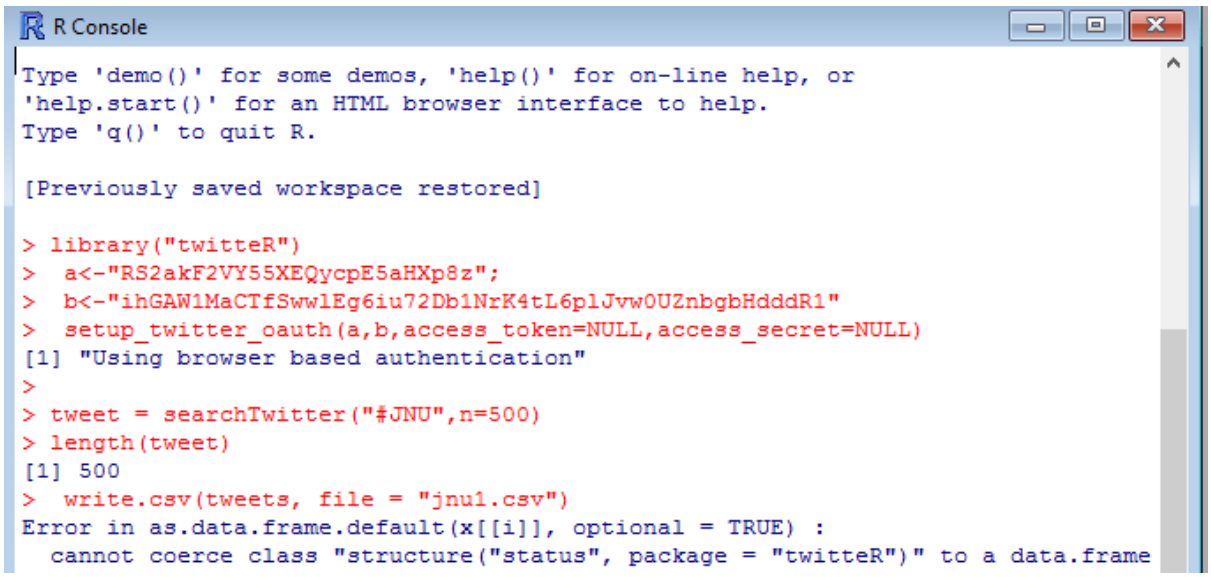

```
tweet = searchTwitter("#JNU",n=500)
```


RGui (64-bit)
File Edit View Misc Packages Windows Help
R Console
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[Previously saved workspace restored]
> library("twitteR")
> a<-"R52akF2VY55XEQycpE5aHXp8z";
> b<-"ihGAW1MaCTfSwwlEg6iu72Db1NrK4tL6plJvw0UZnbgbHdddR1"
> setup_twitter_oauth(a,b,access_token=NULL,access_secret=NULL)
[1] "Using browser based authentication"
>
> tweet = searchTwitter("#JNU",n=500)

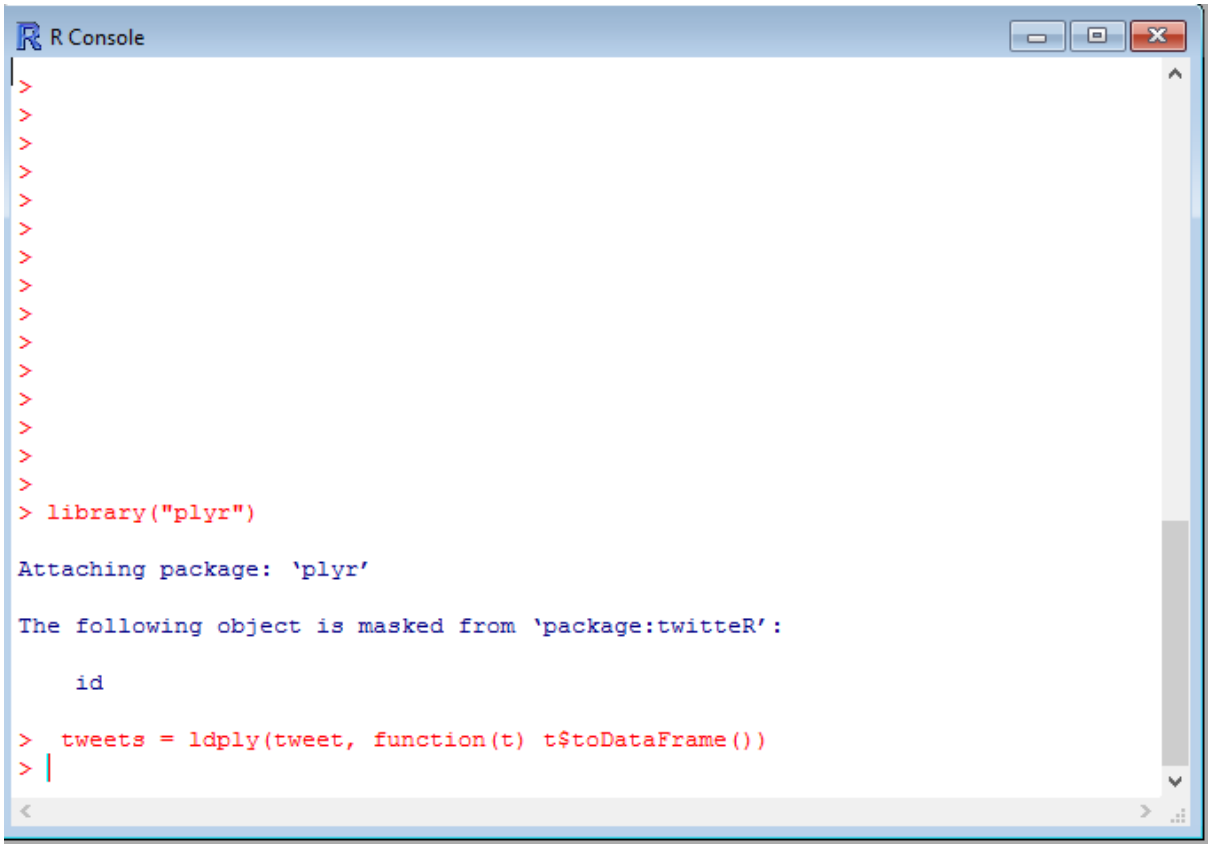

R Console
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[Previously saved workspace restored]
> library("twitteR")
> a<-"RS2akF2VY55XEQycpE5aHXp8z";
> b<-"ihGAW1MaCTfSwwlEg6iu72Db1NrK4tL6plJvw0UZnbgbHdddR1"
> setup_twitter_oauth(a,b,access_token=NULL,access_secret=NULL)
[1] "Using browser based authentication"
>
> tweet = searchTwitter("#JNU",n=500)
>


R Console
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[Previously saved workspace restored]
> library("twitteR")
> a<-"RS2akF2VY55XEQycpE5aHXp8z";
> b<-"ihGAW1MaCTfSwwlEg6iu72Db1NrK4tL6plJvw0UZnbgbHdddR1"
> setup_twitter_oauth(a,b,access_token=NULL,access_secret=NULL)
[1] "Using browser based authentication"
>
> tweet = searchTwitter("#JNU",n=500)
> length(tweet)
[1] 500
>

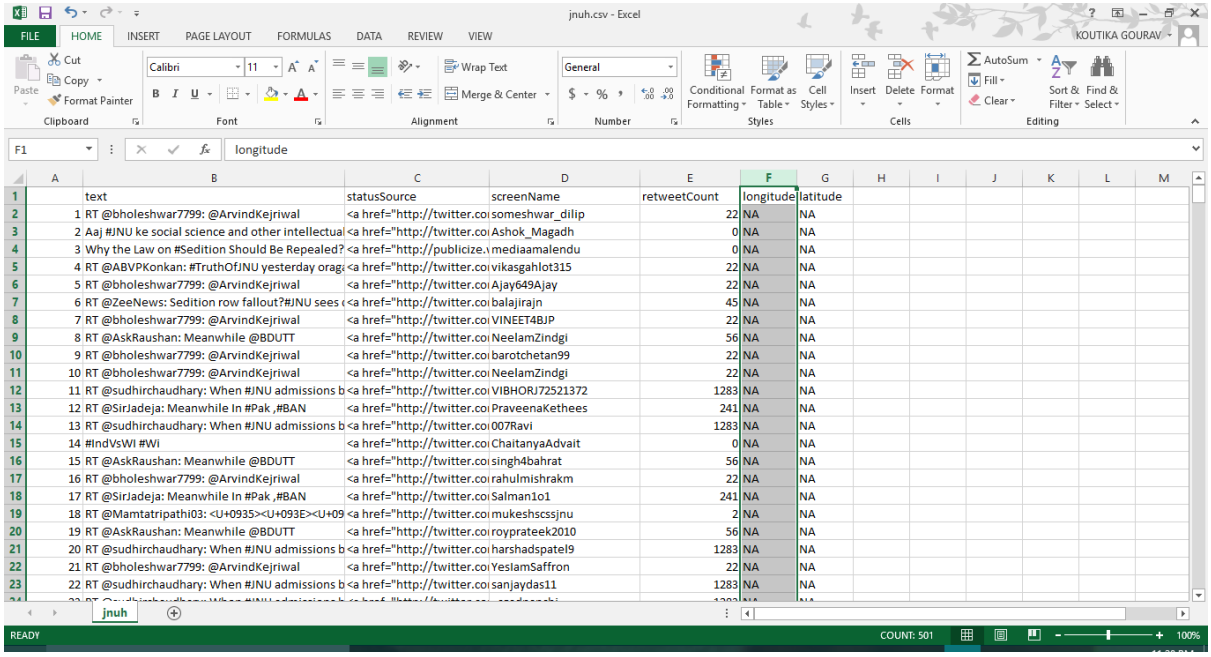
tweets <- searchTwitter("#nba", n=1499, cainfo="cacert.pem", lang="en")
tweets.text <- sapply(tweets, function(x) x$getText())



tweets = ldply(tweet, function(t) t$toDataFrame())



write.csv(tweets, file = "jnuharsh.csv")



	text	statusSource	screenName	retweetCount	longitude	latitude
1	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	someshwar_dilip	22	NA	NA
2	Aaj #JNU ke social science and other intellectual	<a href="http://twitter.co	Ashok_Magadh	0	NA	NA
3	Why the Law on #Sedition Should Be Repealed?	<a href="http://publicize.v	mediaamalendu	0	NA	NA
4	RT @ABVPKonkan: #TruthOfJNU yesterday oraga	<a href="http://twitter.co	vikasgahlot315	22	NA	NA
5	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	Ajay649Ajay	22	NA	NA
6	RT @ZeeNews: Sedition row fallout?#JNU sees	<a href="http://twitter.co	balajirajn	45	NA	NA
7	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	VINEET4BJP	22	NA	NA
8	RT @AskRaushan: Meanwhile @BDUTT	<a href="http://twitter.co	NeelamZindgi	56	NA	NA
9	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	barotchetan99	22	NA	NA
10	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	NeelamZindgi	22	NA	NA
11	RT @sudhirchaudhary: When #JNU admissions b	<a href="http://twitter.co	VIBHORJ72521372	1283	NA	NA
12	RT @SirJadeja: Meanwhile In #Pak ,#BAN	<a href="http://twitter.co	PraveenaKethees	241	NA	NA
13	RT @sudhirchaudhary: When #JNU admissions b	<a href="http://twitter.co	007Ravi	1283	NA	NA
14	#IndVsWI #Wi	<a href="http://twitter.co	ChaitanyaAdvait	0	NA	NA
15	RT @AskRaushan: Meanwhile @BDUTT	<a href="http://twitter.co	singh4bahrat	56	NA	NA
16	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	rahulmishrakm	22	NA	NA
17	RT @SirJadeja: Meanwhile In #Pak ,#BAN	<a href="http://twitter.co	Salman1o1	241	NA	NA
18	RT @Mamtatripathi03: <U+0935><U+093E><U+09	<a href="http://twitter.co	mukeshscssjnu	2	NA	NA
19	RT @AskRaushan: Meanwhile @BDUTT	<a href="http://twitter.co	royprateek2010	56	NA	NA
20	RT @sudhirchaudhary: When #JNU admissions b	<a href="http://twitter.co	harshadspatel9	1283	NA	NA
21	RT @bholeshwar7799: @ArvindKejriwal	<a href="http://twitter.co	YeslamSaffron	22	NA	NA
22	RT @sudhirchaudhary: When #JNU admissions b	<a href="http://twitter.co	sanjaydas11	1283	NA	NA

after writing the data into csv file now we extract the text written by the

user by the below code

```
library('plyr')

tweets.text=laply(tweet,function(t)t$getText())
```

```
> tweet.text=laply(tweet,function(t)t$getText())
```

cleaning the text

hello.text<- iconv(hello.text, 'UTF-8', 'ASCII') this is used for removing the emoji else tolower function canot be used

```
> tweet.text=laply(tweet,function(t)t$getText())
> hello.text<- iconv(tweet.text, 'UTF-8', 'ASCII')
> asciemojii<- iconv(tweet.text, 'UTF-8', 'ASCII')
>
>
>
>
```

gsub() function replaces all matches of a string, if the parameter is a string vector, returns a string vector of the same length and with the same attributes (after possible coercion to character). Elements of string vectors which are not substituted will be returned unchanged (including any declared encoding).

```
gsub(pattern, replacement, x, ignore.case = FALSE, perl = FALSE,
    fixed = FALSE, useBytes = FALSE)
```

- pattern: string to be matched
- replacement: string for replacement
- x: string or string vector
- ignore.case: if TRUE, ignore case

...

```
> x <- "R Tutorial"
> gsub("ut","ot",x)
[1] "R Totorial"
```

Case insensitive replace:

```
> gsub("tut","ot",x,ignore.case=T))
[1] "R otorial"
```

```
#convert all text to lower case
tweets.text <- tolower(tweets.text)
```

```
>
>
>
> tweet.text=laply(tweet,function(t)t$getText())
> hello.text<- iconv(tweet.text, 'UTF-8', 'ASCII')
> asciemojii<- iconv(tweet.text, 'UTF-8', 'ASCII')
>
>
>
>
>
> tweettolower <- tolower(asciemojii)
>
```

```
# Replace blank space (“rt”)
 tweets.text <- gsub("rt", "", tweets.text)

 # Replace @UserName
 tweets.text <- gsub("@\\w+", "", tweets.text)

 # Remove punctuation
 tweets.text <- gsub("[[:punct:]]", "", tweets.text)

 # Remove links
 tweets.text <- gsub("http\\w+", "", tweets.text)

 # Remove tabs
 tweets.text <- gsub("[ |\t]{2,}", "", tweets.text)

 # Remove blank spaces at the beginning
 tweets.text <- gsub("^ ", "", tweets.text)

# Remove blank spaces at the end
 tweets.text <- gsub(" $", "", tweets.text)
```