#Install the following packages:

#httr

#purrr

#plyr

#stringr

#bit64

#dplyr

#rjson

#twitteR

#ROAuth

#Rcurl

api\_key <- “your key"

api\_secret <- “\*\*\*\*\*\*\*\*\*\*\*\*\*"

access\_token <- "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

access\_token\_secret <- "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

setup\_twitter\_oauth(api\_key,api\_secret)

l<- 10; #number of tweets to stream

string<-"India" #topic

tweet<- searchTwitter(string ,n=l)

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

happycounter<- 0;

excitedcounter<- 0;

relifcounter<- 0;

poscounter<- 0;

negcounter<- 0;

angercounter<-0;

fearcounter<-0;

sadcounter<-0;

neucounter<-0;

neutralcounter<- 0;

happyemojicounter<- 0;

excitedemojicounter<- 0;

relifemojicounter<- 0;

angeremojicounter<-0;

fearemojicounter<-0;

sademojicounter<-0;

noemoji<-0;

pos.words <- scan(file="pos.txt",what='character',comment.char= ";")

neg.words <- scan(file="neg.txt",what='character',comment.char= ";")

happy.words <- scan(file="happy.txt",what='character',comment.char= ";")

excited.words <- scan(file="excited.txt",what='character',comment.char= ";")

relif.words <- scan(file="relif.txt",what='character',comment.char= ";")

sad.words <- scan(file="sad.txt",what='character',comment.char= ";")

fear.words <- scan(file="fear.txt",what='character',comment.char= ";")

anger.words <- scan(file="anger.txt",what='character',comment.char= ";")

happy.emoji <- scan(file="happyemo.txt",what='character',comment.char= ";")

excited.emoji <- scan(file="excitedemo.txt",what='character',comment.char= ";")

relif.emoji <- scan(file="relifemo.txt",what='character',comment.char= ";")

sad.emoji <- scan(file="sademo.txt",what='character',comment.char= ";")

fear.emoji <- scan(file="fearemo.txt",what='character',comment.char= ";")

anger.emoji <- scan(file="angryemo.txt",what='character',comment.char= ";")

lh<-length(happy.emoji)

le<-length(excited.emoji)

lr<-length(relif.emoji)

ls<-length(sad.emoji)

lf<-length(fear.emoji)

la<-length(anger.emoji)

for(j in seq(1,l,1))

{

tweet1<-twListToDF(tweet[j])

stremo=iconv(tweet1[1], from="UTF-8", to="ASCII", "byte")

sentence = Tweets.text[j]

word.list = str\_split(sentence, '\\s+')

words = unlist(word.list)

sumhappy<- 0;

sumexcited<- 0;

sumrelif<- 0;

sumneutral<-0;

sumfear<-0;

sumsad<-0;

sumanger<-0;

a=0;b=0;c=0;d=0;e=0;f=0;

pos.matches = match(words, pos.words)

neg.matches = match(words, neg.words)

pos.matches = !is.na(pos.matches)

neg.matches = !is.na(neg.matches)

happy.matches = match(words, happy.words)

excited.matches = match(words, excited.words)

relif.matches = match(words, relif.words)

happy.matches = !is.na(happy.matches)

excited.matches = !is.na(excited.matches)

relif.matches= !is.na(relif.matches)

sad.matches = match(words, sad.words)

fear.matches = match(words, fear.words)

anger.matches = match(words, anger.words)

sad.matches = !is.na(sad.matches)

fear.matches = !is.na(fear.matches)

anger.matches= !is.na(anger.matches)

for(i in seq(1,lh,1))

{

a[i]=grepl(happy.emoji[i],stremo);

}

sumhappy=sum(a)

for(x in seq(1,le,1))

{

b[x]=grepl(excited.emoji[x],stremo);

}

sumexcited=sum(b)

for(y in seq(1,lr,1))

{

c[y]=grepl(relif.emoji[y],stremo);

}

sumrelif=sum(c)

for(z in seq(1,ls,1))

{

d[z]=grepl(sad.emoji[z],stremo);

}

sumsad=sum(d)

for(u in seq(1,lf,1))

{

e[u]=grepl(fear.emoji[u],stremo);

}

sumfear=sum(e)

for(w in seq(1,la,1))

{

f[w]=grepl(anger.emoji[w],stremo);

}

sumanger=sum(f)

if(sum(happy.matches) || sumhappy)

{

happycounter=happycounter+1;

}

if(sum(excited.matches)|| sumexcited)

{

excitedcounter=excitedcounter+1;

}

if(sum(relif.matches)|| sumrelif)

{

relifcounter=relifcounter+1;

}

if(sum(sad.matches) || sumsad)

{

sadcounter=sadcounter+1;

}

if(sum(fear.matches) || sumfear)

{

fearcounter=fearcounter+1;

}

if(sum(anger.matches) || sumanger)

{

angercounter=angercounter+1;

}

if((sum(happy.matches) && sum(excited.matches))||(sum(happy.matches) && sum(relif.matches))|| (sumexcited && sumhappy)||(sumrelif && sumhappy))

{

happycounter=happycounter-1;

}

if((sum(sad.matches) && sum(fear.matches))||(sum(sad.matches) && sum(anger.matches))||((sumfear && sumsad)||(sumanger && sumsad)))

{

sadcounter=sadcounter-1;

}

if((sum(excited.matches) && sum(relif.matches))||(sumexcited && sumrelif))

{

excitedcounter=excitedcounter-1;

}

if((sum(fear.matches)&& sum(anger.matches))||(sumanger && sumfear))

{

angercounter=angercounter-1;

}

score = sum(pos.matches) - sum(neg.matches)

if(score>0)

{

poscounter<-poscounter+1;

}

if(score<0)

{

negcounter<-negcounter+1;

}

if(!score){

neutralcounter<-neutralcounter+1;

}

if(!(sum(happy.matches)+sum(relif.matches)+sum(excited.matches)-sum(anger.matches)-sum(sad.matches)-sum(fear.matches)))

{

neucounter<- neucounter+1;

}

i=i+1;

}

happycounter<- (happycounter/l)\*100

excitedcounter<- (excitedcounter/l)\*100

relifcounter<- (relifcounter/l)\*100

neucounter<- (neucounter/l)\*100

poscounter<- (poscounter/l)\*100;

negcounter<- (negcounter/l)\*100;

angercounter<-(angercounter/l)\*100;

neutralcounter<- (neutralcounter/l)\*100;

sadcounter<- (sadcounter/l)\*100;

fearcounter<-(fearcounter/l)\*100;

graph<- c(poscounter,neutralcounter,negcounter)

labels<- c("Postitive","Neutarl","Negative")

png(file="bargraph.png")

barplot(graph,names.arg = labels, xlab="Opinion",ylab="Percent(%)",col="light blue",main =string, border="black")

dev.off()

png(file="piechart.png")

pie(graph,labels,main= string)

dev.off()

graph1<- c(happycounter,excitedcounter,relifcounter,neucounter,angercounter,fearcounter,sadcounter)

labels<- c("Happy","Excited","Relif","Neutral","Angry","Fear","Sad")

png(file="Emotion analysis.png")

barplot(graph1,names.arg = labels, xlab="Emotion",ylab="Percent(%)",col="light blue",main = string, border="black")

dev.off()