In [ ]:
```
#A GUI window asks you for a keyword and sample size and analyses the senti
#the keyword in a scatterplot.
#from a github
```

In [1]:
```
import tweepy
from tkinter import *
from time import sleep
from datetime import datetime
from textblob import TextBlob
import matplotlib.pyplot as plt
```

In [2]:
```
#Authentication

from credentials import *
#create a file called credentials.py make sure it is in the same folder as
# the credentials file will look like this
#ACCESS_TOKEN = 'xxx'
#ACCESS_SECRET = 'xx'
#CONSUMER_KEY = 'xx'
#CONSUMER_SECRET = 'xx'
```

In [3]:
```
auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_secret)
api = tweepy.API(auth)
```

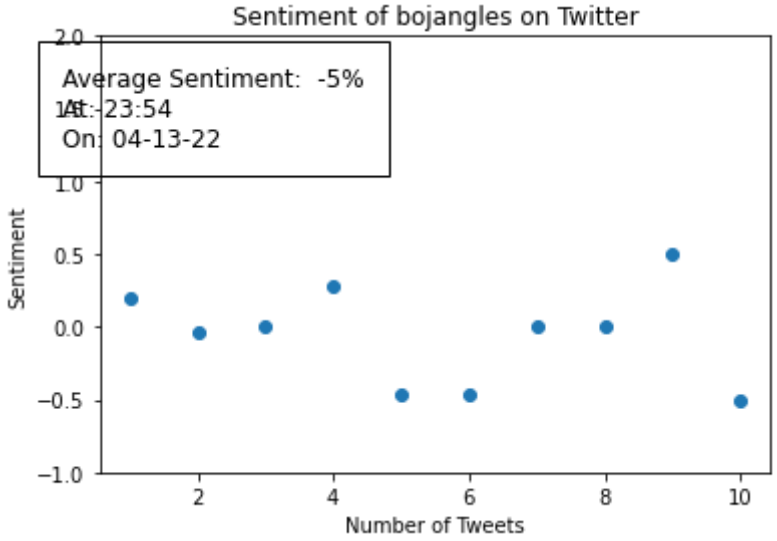
In [4]:
```
#GUI
root = Tk()

label1 = Label(root, text="Search")
E1 = Entry(root, bd =5)

label2 = Label(root, text="Sample Size")
E2 = Entry(root, bd =5)
```

In [5]:
```
def getE1():
    return E1.get()

def getE2():
    return E2.get()
```

In [6]:
```
def getData():
    getE1()
    keyword = getE1()

    getE2()
    numberOfTweets = getE2()
    numberOfTweets = int(numberOfTweets)

    #Where the tweets are stored to be plotted
    polarity_list = []
    numbers_list = []
    number = 1

    for tweet in tweepy.Cursor(api.search_tweets, keyword, lang="en").items
        try:
            analysis = TextBlob(tweet.text)
            analysis = analysis.sentiment
            polarity = analysis.polarity
            polarity_list.append(polarity)
            numbers_list.append(number)
            number = number + 1

        except tweepy.TweepError as e:
            print(e.reason)

        except StopIteration:
            break

    #Plotting
    axes = plt.gca()
    axes.set_ylim([-1, 2])

    plt.scatter(numbers_list, polarity_list)

    averagePolarity = (sum(polarity_list))/(len(polarity_list))
    averagePolarity = "{0:.0f}%".format(averagePolarity * 100)
    time  = datetime.now().strftime("At: %H:%M\nOn: %m-%d-%y")

    plt.text(0, 1.25, "Average Sentiment:  " + str(averagePolarity) + "\n"

    plt.title("Sentiment of " + keyword + " on Twitter")
    plt.xlabel("Number of Tweets")
    plt.ylabel("Sentiment")
    plt.show()
```

In [7]:
```
submit = Button(root, text ="Submit", command = getData)

label1.pack()
E1.pack()
label2.pack()
E2.pack()
submit.pack(side =BOTTOM)
```

In [8]:
```
root.mainloop()
```



In [ ]: