## Plot a sentiment graph on the 1000 sample tweets

In [1]:

Finished.

```
import numpy as np
import pandas as pd
from pandas.io.json import json_normalize
import pip
pip.main(['install', 'requests'])
pip.main(["install","Twitter"])
import twitter
from twitter import Twitter
from twitter import OAuth
import matplotlib.pyplot as plt
!python -m textblob.download_corpora
from textblob import TextBlob
Requirement already satisfied: requests in /Users/prabhatjohl/anac
onda3/lib/python3.6/site-packages
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /Users/pra
bhatjohl/anaconda3/lib/python3.6/site-packages (from requests)
Requirement already satisfied: idna<2.7,>=2.5 in /Users/prabhatjoh
1/anaconda3/lib/python3.6/site-packages (from requests)
Requirement already satisfied: urllib3<1.23,>=1.21.1 in /Users/pra
bhatjohl/anaconda3/lib/python3.6/site-packages (from requests)
Requirement already satisfied: certifi>=2017.4.17 in /Users/prabha
tjohl/anaconda3/lib/python3.6/site-packages (from requests)
Requirement already satisfied: Twitter in /Users/prabhatjohl/anaco
nda3/lib/python3.6/site-packages
[nltk data] Downloading package brown to
[nltk data]
                /Users/prabhatjohl/nltk_data...
              Package brown is already up-to-date!
[nltk data]
[nltk data] Downloading package punkt to
                /Users/prabhatjohl/nltk data...
[nltk data]
[nltk data]
              Package punkt is already up-to-date!
[nltk data] Downloading package wordnet to
[nltk_data]
                /Users/prabhatjohl/nltk_data...
              Package wordnet is already up-to-date!
[nltk data]
[nltk data] Downloading package averaged perceptron tagger to
[nltk_data]
                /Users/prabhatjohl/nltk_data...
              Package averaged_perceptron_tagger is already up-to-
[nltk_data]
[nltk data]
                  date!
[nltk data] Downloading package conll2000 to
[nltk data]
                /Users/prabhatjohl/nltk data...
[nltk data]
              Package conll2000 is already up-to-date!
[nltk_data] Downloading package movie_reviews to
                /Users/prabhatjohl/nltk data...
[nltk data]
[nltk data]
              Package movie reviews is already up-to-date!
```

```
In [2]:

ck=""
cs=""
at=""
ats=""

oauth= OAuth(at,ats,ck,cs)
api= Twitter(auth=oauth)
```

Below code fetches the 1000 tweets regarding Blackpanther

```
In [3]:
```

```
mid=0;
df=pd.DataFrame()
for i in range(10):
    if i==0:
        search_result= api.search.tweets(q="Blackpanther", count=100)
    else:
        search_result= api.search.tweets(q="Blackpanther", count=100, max_id=m
id)

    dftemp= json_normalize(search_result, 'statuses')
    mid= dftemp['id'].min()
    mid=mid-1
    df=df.append(dftemp,ignore_index=True)
```

Extracting words from the tweets then evaluating the polarity and subjectivity of the each word used.

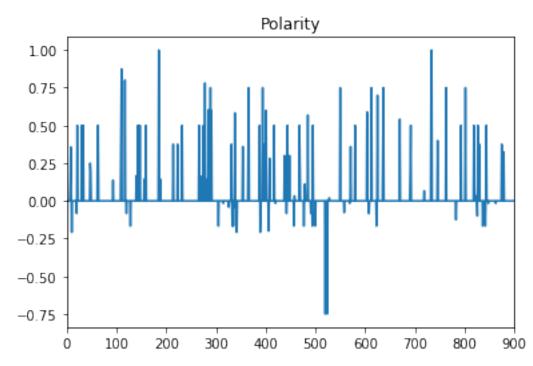
```
In [4]:
```

```
tweettext=df['text']
wordlist=pd.DataFrame();

polarity=[]
subj=[]

for t in tweettext:
    tx= TextBlob(t)
    polarity.append(tx.sentiment.polarity)
    subj.append(tx.sentiment.subjectivity)

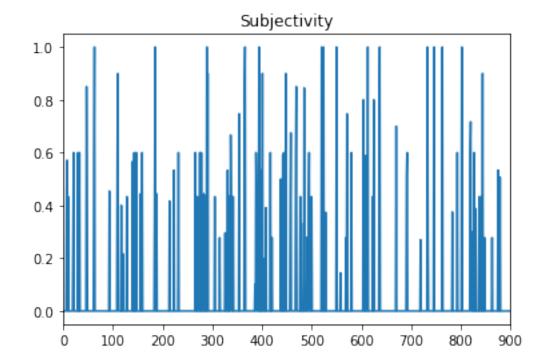
poltweet= pd.DataFrame({'polarity':polarity,'subjectivity':subj})
poltweet.polarity.plot(title='Polarity')
plt.show()
```



The above graph shows the polarity of all words used in sampled 1000 tweets.

```
In [5]:
```

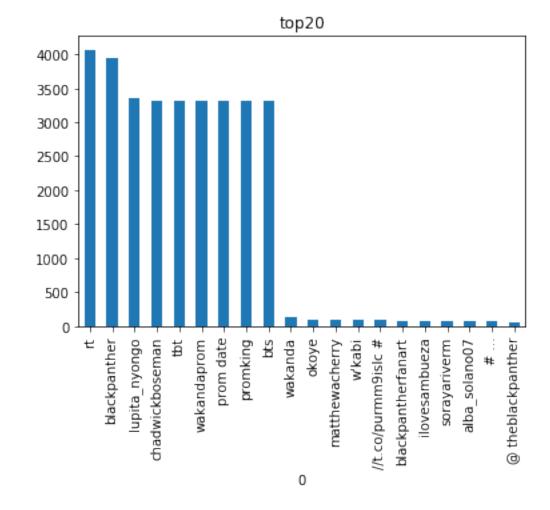
```
poltweet.subjectivity.plot(title='Subjectivity')
plt.show()
```



The above graph shows the subjectivity of all words used in sampled 1000 tweets.

Below code: extract and plot top 20 Nouns used in 1000 tweets:

## In [7]:



## In [ ]:

Conclusion: Above graph shows the top 20 Nouns used by the tweeter users.