

Problem 1: Twitter data collection

Python on mac book

Required module -> tweepy

```
Desktop — -bash — 80x24
Last login: Sun Sep  9 19:09:15 on console
[dhcp-10-11-207-87:~ sayedkhan$ cd Desktop
dhcp-10-11-207-87:Desktop sayedkhan$ python scraper.py
```

After collecting tweet data, it will raise exception and exit program automatically. I have already collected many tweets based on "Trump". This python will check the existing file Trump.txt for appending data. If it does not get it, it will create a file name Trump.txt.

```
Desktop — -bash — 80x24
found 100 tweets
count = 35
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
count = 36
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
count = 37
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:37.710318 )
count = 38
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:37.839644 )
count = 39
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:38.011097 )
exiting
dhcp-10-11-207-87:Desktop sayedkhan$
```

Problem 2 Tweet sentiment calculation

\$ python tweet_sentiment.py AFINN-111.txt Trump.txt

```
Desktop — -bash — 80x24
count = 35
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
count = 36
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
found 100 tweets
count = 37
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:37.710318 )
count = 38
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:37.839644 )
count = 39
exception raised, waiting 1 minutes
(until: 2018-09-09 19:19:38.011097 )
exiting
dhcp-10-11-207-87:Desktop sayedkhan$ python tweet_sentiment.py AFINN-111.txt Tru
mp.txt
```

```
Desktop — -bash — 80x24
-2
0
0
0
-3
-3
-1
-2
0
0
2
-1
0
0
-2
0
0
0
1
0
0
0
-3
-1
dhcp-10-11-207-87:Desktop sayedkhan$
```

Problem 3 Term sentiment calculation

\$ python tweet_sentiment.py AFINN-111.txt Trump.txt

```
0
0
0
-3
-3
-1
-2
0
0
2
-1
0
0
-2
0
0
1
0
0
0
-3
-1
dhcp-10-11-207-87:Desktop sayedkhan$ python term_sentiment.py AFINN-111.txt Trump
p.txt
```

```
b'RT' -1
b'@NatashaBertrand:' -1
b'My' -1
b'story' -1
b'from' -1
b'last' -1
b'week,' -1
b'about' -1
b'Trump\xe2\x80\x99s' -1
b'Trump\xe2\x80\x99s' -1
b'on' -1
b'FBI' -1
b'and' -1
b'DOJ' -1
b'officials' -1
b'with' -1
b'expertise' -1
b'in' -1
b'organized' -1
b'crime,' -1
b'is' -1
b'quoted' -1
b'i\xe2\x80\xa6' -1
dhcp-10-11-207-87:Desktop sayedkhan$
```

Problem 4 Term frequency

\$python frequency.py Trump.txt

```
Desktop — -bash — 80x24
b'RT' -1
b'@NatashaBertrand:' -1
b'My' -1
b'story' -1
b'from' -1
b'last' -1
b'week,' -1
b'about' -1
b'Trump\xe2\x80\x99s' -1
b'Trump\xe2\x80\x99s' -1
b'on' -1
b'FBI' -1
b'and' -1
b'DOJ' -1
b'officials' -1
b'with' -1
b'expertise' -1
b'in' -1
b'organized' -1
b'crime,' -1
b'is' -1
b'quoted' -1
b'i\xe2\x80\xa6' -1
dhcp-10-11-207-87:Desktop sayedkhan$

Desktop — -bash — 80x24
b'o' 0.050000
b'f' 0.021429
b'm' 0.021429
b'l' 0.014286
b'w' 0.014286
b'k' 0.014286
b',' 0.014286
b'b' 0.007143
b'u' 0.021429
b'p' 0.014286
b'\xe2\x80\x99' 0.007143
b'c' 0.021429
b'F' 0.007143
b'I' 0.007143
b'D' 0.007143
b'O' 0.007143
b'J' 0.007143
b'i' 0.064286
b'x' 0.007143
b'g' 0.007143
b'z' 0.007143
b'q' 0.007143
b'\xe2\x80\xa6' 0.007143
dhcp-10-11-207-87:Desktop sayedkhan$
```

Problem 5 Happiest State

\$python happiest_state.py AFINN-111.txt Trump.txt

```
Desktop — -bash — 80x24
b'f' 0.021429
b'm' 0.021429
b'l' 0.014286
b'w' 0.014286
b'k' 0.014286
b',' 0.014286
b'b' 0.007143
b'u' 0.021429
b'p' 0.014286
b'\xe2\x80\x99' 0.007143
b'c' 0.021429
b'F' 0.007143
b'I' 0.007143
b'D' 0.007143
b'O' 0.007143
b'J' 0.007143
b'i' 0.064286
b'x' 0.007143
b'g' 0.007143
b'z' 0.007143
b'q' 0.007143
b'\xe2\x80\xa6' 0.007143
dhcp-10-11-207-87:Desktop sayedkhan$ python happiest_state.py AFINN-111.txtTrump
.txt
[dhcp-10-11-207-87:Desktop sayedkhan$ python happiest_state.py AFINN-111.txt Trum]
p.txt
NJ
dhcp-10-11-207-87:Desktop sayedkhan$
```

Problem 6 Top Ten hashtag

\$python top_ten.py Trump.txt

```
IndexError: list index out of range
dhcp-10-11-207-87:Desktop sayedkhan$ python happiest_state.py AFINN-111.txt Trum]
p.txt
NJ
dhcp-10-11-207-87:Desktop sayedkhan$ python top_ten.py Trump.txt
[dhcp-10-11-207-87:Desktop sayedkhan$ python top_ten.py Trump.txt
Trump 659.0
Obama 548.0
Democrat 387.0
DeepState 351.0
MAGA 339.0
Obamagate 247.0
AW 233.0
Kavanaugh 126.0
RussianCollusion 82.0
FoxNews 77.0
dhcp-10-11-207-87:Desktop sayedkhan$
```