Summary:

In this homework, I captured the last 200 tweets of 10 individuals by Twiiter4J and parsed the tweets by excluding periods and commas and lowering all letters. I wrote a hashmap representing LIWC catalogue and a hashmap representing the map from LIWC to 5 OCEAN Personality scores. I ran psychological sentiment analysis by counting the number of words in LIWC catalogues. Finally, I use the map from LIWC to 5 Ocean and the output of sentiment analysis to get 10 people's Personality score.

Challenges in progress:

1. **Extracting contents of twitter**

   Because the sentiment analysis based on LIWC is only related to the frequencies of words, I don't need exclude the words that aren't possible in LIWC such as time and id. Firstly, I tokenized all twitter, however, there are some tokens like "good.", "He". So I lower all letters and exclude commas and periods.

2. **Data structure of LIWC catalogue**

   I use Hashmap to implement LIWC catalogue. The key of hashmap is the word and the value is an Arraylist containing the catalogues the word belong.

3. **Data structure of map from LIWC to Big Five**

   I use Hashmap to implement the map. The key of hashmap is the LIWC catalogue and the value is an Arraylist containing the grades of Big Five of catalogues.

Analysis of outcome

In my outcome, it shows number of words in every catalogue and 5 ocean personality scores of every personality. The following is a summary.

_natw is positive emotion and openness.

AlphaWolfTradin is positive emotion and agreeableness.

Danielptucker is positive emotion and agreeableness.

Dbiello is positive emotion and agreeableness.

Dustynrobots is positive emotion and agreeableness.

Jraitamaa is positive emotion and agreeableness.

Manoushz is positive emotion and agreeableness.

Nntabele is positive emotion and agreeableness.

NYDNBenChapman is positive emotion and agreeableness.

Penenberg is positive emotion and agreeableness.

I think most of people are positive because people always share the thing that they think it is wonderful.