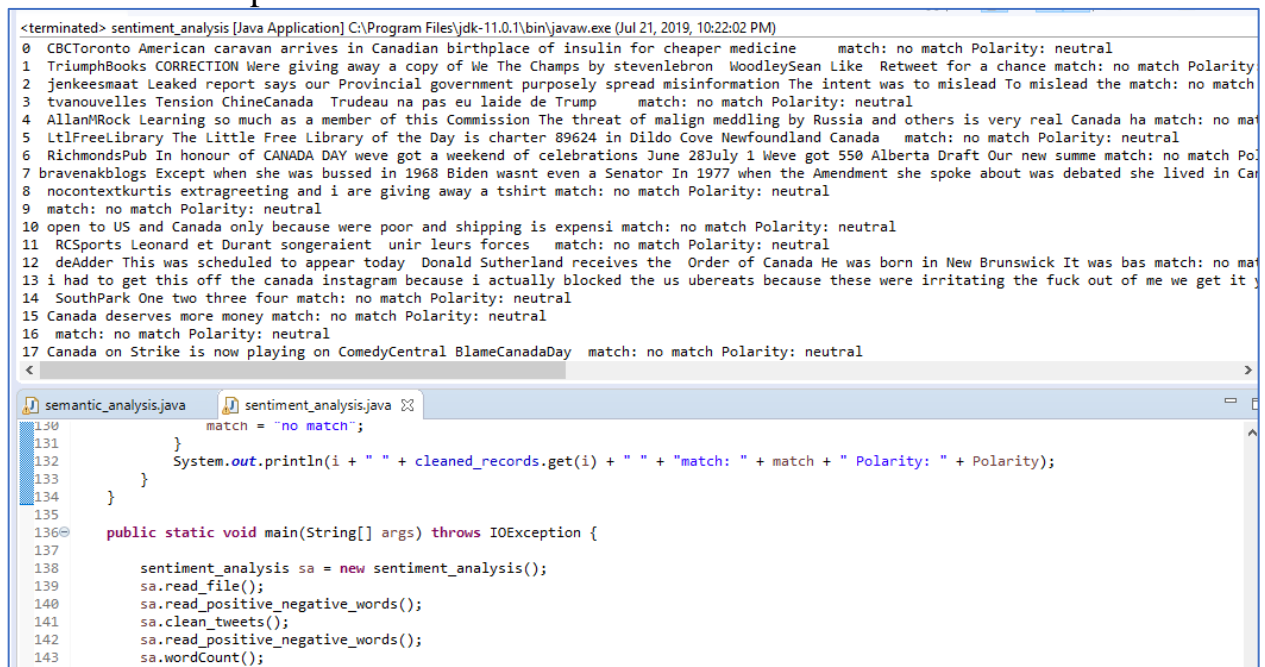# SENTIMENT ANALYSIS DOCUMENTATION

INTRODUCTION:

The tweets which are extracted for the previous Assignment (Assignment-2) is analyzed to determine the emotions tied with every tweets which were streamed or stored. The analysis of the emotions in the tweets classify the tweets as positive, negative and neutral. The Polarity of the tweets are classified based on the list of positive and negative words in the text files.

PROCESS:

1. The tweets which were stored in MogonDB for the assignment-1 was extracted and stored in *"twitter.csv"* file.

2. Scripts are written to read the file and remove the URLs, and other special characters from the tweets. Regular expressions are used to remove the special characters and "*RT*".

3. The script will compare every tweet from the *"twitter.csv"* and with the "negative-words.txt" and "positive-words.txt" to conclude whether the tweets are of *positive* or *negative* or *neutral* polarity.

4. The analysis of every tweet is displayed on the output console along with the word which matches the list of words in the above mentioned files used as a dictionary.

Screenshot of Ouptut from the console:

```
<terminated> sentiment_analysis [Java Application] C:\Program Files\jdk-11.0.1\bin\javaw.exe (Jul 21, 2019, 10:22:02 PM)
0  CBCToronto American caravan arrives in Canadian birthplace of insulin for cheaper medicine      match: no match Polarity: neutral
1  TriumphBooks CORRECTION Were giving away a copy of We The Champs by stevenlebron  WoodleySean Like  Retweet for a chance match: no match Polarity
2  jenkeesmaat Leaked report says our Provincial government purposely spread misinformation The intent was to mislead To mislead the match: no match
3  tvanouvelles Tension ChineCanada  Trudeau na pas eu laide de Trump      match: no match Polarity: neutral
4  AllanMRock Learning so much as a member of this Commission The threat of malign meddling by Russia and others is very real Canada ha match: no mat
5  LtlFreeLibrary The Little Free Library of the Day is charter 89624 in Dildo Cove Newfoundland Canada    match: no match Polarity: neutral
6  RichmondsPub In honour of CANADA DAY weve got a weekend of celebrations June 28July 1 Weve got 550 Alberta Draft Our new summe match: no match Po
7 bravenakblogs Except when she was bussed in 1968 Biden wasnt even a Senator In 1977 when the Amendment she spoke about was debated she lived in Car
8  nocontextkurtis extragreeting and i are giving away a tshirt match: no match Polarity: neutral
9  match: no match Polarity: neutral
10 open to US and Canada only because were poor and shipping is expensi match: no match Polarity: neutral
11  RCSports Leonard et Durant songeraient  unir leurs forces  match: no match Polarity: neutral
12  deAdder This was scheduled to appear today  Donald Sutherland receives the  Order of Canada He was born in New Brunswick It was bas match: no mat
13 i had to get this off the canada instagram because i actually blocked the us ubereats because these were irritating the fuck out of me we get it y
14  SouthPark One two three four match: no match Polarity: neutral
15 Canada deserves more money match: no match Polarity: neutral
16  match: no match Polarity: neutral
17 Canada on Strike is now playing on ComedyCentral BlameCanadaDay  match: no match Polarity: neutral
```

```java
130                    match = "no match";
131            }
132            System.out.println(i + " " + cleaned_records.get(i) + " " + "match: " + match + " Polarity: " + Polarity);
133        }
134    }

136    public static void main(String[] args) throws IOException {

138        sentiment_analysis sa = new sentiment_analysis();
139        sa.read_file();
140        sa.read_positive_negative_words();
141        sa.clean_tweets();
142        sa.read_positive_negative_words();
143        sa.wordCount();
```