# Report

### Screenshot of running code

## BCSF17A505 Mian Muhammad Anwar Compiler Construction

CS 460: Cloud Computing Spring 2021
Punjab University College of Information Technology (PUCIT) University of the Punjab
Assignment 3: Sentiment Analysis using Hadoop Instructor: Waheed Iqbal & Muhammad Abdullah

### Assignment 03: Sentiment Analysis using Hadoop

Sentiment analysis is a process to identify emotions behind any text. In this assignment, you have to build a simple sentiment analysis MapReduce job. Following are the important files to perform the task:

- twitter.json.tar.gz: A compressed file containing around 1 million tweets in a JSON format
- 2. positive\_words.txt: A file containing list of positive words
- 3. negative\_words.txt: A file containing list of negative words
- stop\_words.txt: A file containing list of stop words

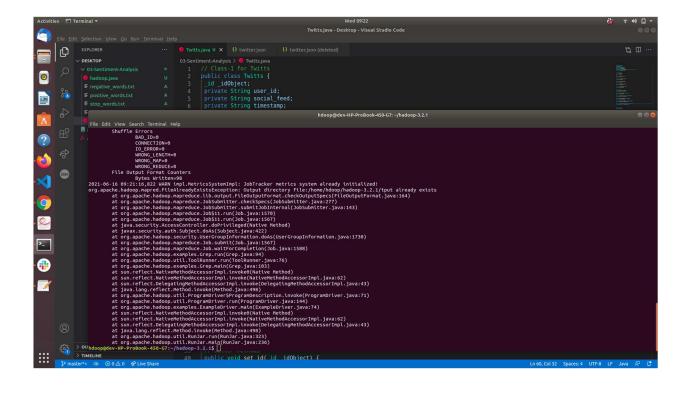
Your MapReduce job should label each tweet either positive, negative, or neutral. For each tweet i, you need to ignore stop words, calculate positive words count  $p_i$ , and negative words count  $n_i$ . Then use the following formula to calculate the sentiment score  $s_i$ :

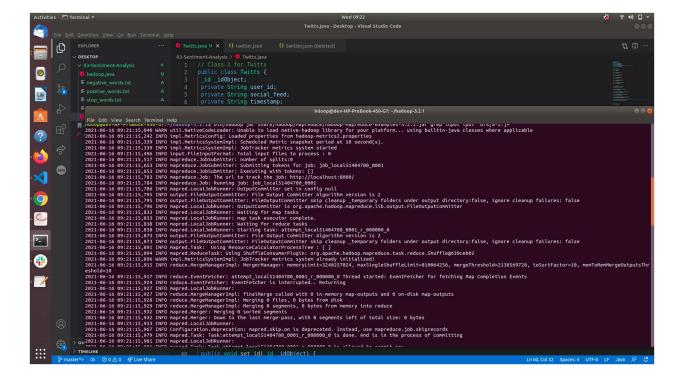
$$s_i = \frac{p_i - n_i}{p_i + n_i + 1}$$
(1)

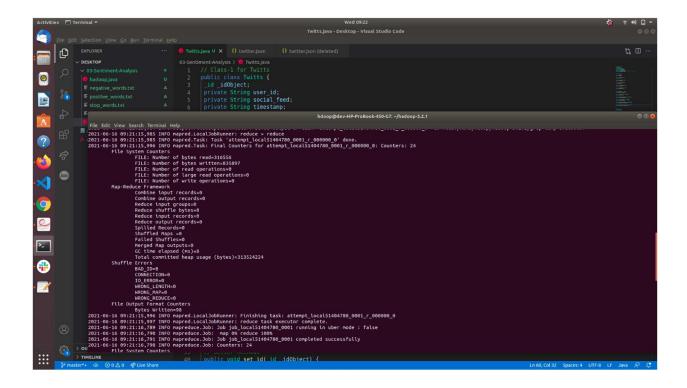
A tweet i will be positive if  $s_i$  is greater than 0, negative if  $s_i$  is less than 0, and neutral if  $s_i$  is equal to 0. You must keep the original JSON document for each tweet and append additional attributed named sentiment. You need to produce three separate files for each category in JSON format.

#### Submission Guidelines

You need to prepare a small report contain screenshot of running your code, attach code in a zip file, and output file before **Tuesday 01 June**, **11:59pm** and submit over Google Classroom.







```
Del Countra:

Job Countra:

Launched redure laskest

Launched redure laskest

Del Countra:

Total time spent by all ness in occupied sidts (nk)-2239

Total time spent by all reduces in occupied sidts (nk)-2239

Total time spent by all reduces in occupied sidts (nk)-2239

Total vicer-nilliseconds taken by all ness takes (nk)-2239

Total vicer-nilliseconds taken by all ness takes-2219

Total vicer-nilliseconds taken by all reduce takes-231990

Map limot records-1

App input records-1

Description of the spent o
```



