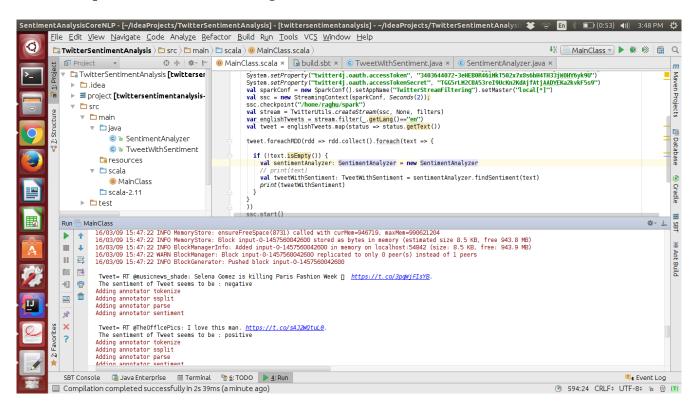
## Lab 7 Assignment

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## Task 1:

The task here was to perform sentiment analysis on Twitter streaming data. I performed the following steps to complete the task.

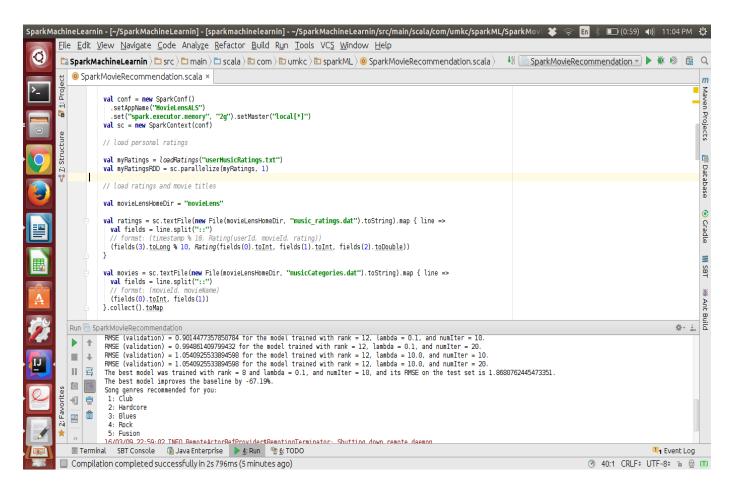
- 1. Create Twitter stream using Twitter4j package.
- 2. Filter the Tweets where the language is English.
- 3. Extract only the Tweet text from the Tweet.
- 4. For every Tweet text perform sentiment analysis using the Stanford NLP class.
- 5. Output the Tweet Text along with the sentiment of the Tweet text.



## Task 2:

This task was to suggest recommendations to the user based on his ratings for music genres. The following steps were performed to complete the task.

- 1. Create training data through Twitter stream filtering and classification of data.
- 2. Manually formatting the collected data into the desired format.
- 3. Performing collaborative filtering on the training data to train the model.
- 4. Get sample data from Twitter to serve as test data.
- 5. Perform recommendation for the test data



## **Task 3:**

The task here was to send the recommendations to phone through socket connection. The following steps were performed to accomplish the task.

- 1. Create a socket server at Android phone side.
- 2. Create a client socket for the recommendation process that provides recommendations.
- 3. Send the recommendations as string over the socket from the client to the server.
- 4. Display the received string on the UI and the Android client end.

