**Highlight 2**

**Notes (all of which can be found in the MISC folder)**

* Continued to write notes which consisted of:
  + Research on Twitter4J
    - The process
    - How to get it
    - What else is needed for it
    - How it all works together
  + Questions to ask
    - General questions to ask supervisor and/or other lectures/ online.
    - Specific questions about API and the process of using Twitter4J.
    - Database storage i.e. Oracle, SQLite3 etc.
    - Integrating into my Intellij IDE.
    - Analytical tools to use.
  + Tasks to be carried out
    - Different tasks to undertake and carry out on Twitter4J.
    - What to do using the Twitter API.
    - Details on how to retrieve Tweets.
    - Different areas to look further into i.e. taking into consideration retweets, likes, replies etc.
    - How to understand the return.

**Meeting with Marco Palomino (Monday 13th February)**

* Discussed mainly using Twitter4J
  + Examples of what he has done in the past.
  + Accessing the examples supplied by Twitter4J.
  + Basic coding using Twitter4J.
  + Useful aspects of Twitter4J that may be used.
    - Tweet streaming
    - Tweet searching
* The Twitter API
  + How it is used.
  + When it is used.
  + How it works.
  + Limitations
    - The number of calls that can be made in a short period of time which means the number of tweets retrieved from searching is limited.
* Visualisation using Neo4J
* Found possible legal issue with taking data from Twitter (may be counted as internet research but it is unclear) this will be followed up to determine if the university legal and ethics document covers this or not.

**Coding**

* Started looking at the example Twitter4J found on their website.
* Created a new Java project to carry out my project.
* Added this to GitHub and integrated Git into my IDE so version control can be done from within the IDE.
* Created the keys needed to use Twitter4J.
  + Added these as the property files to my project.
* Made initial class to test the call-back of the API.
  + Wrote a basic method to test to ensure my keys worked.
* Once above was confirmed I started programming what was needed.
* Created a Twitter stream class which will retrieve live tweets
* Create Twitter search class which will search through past Tweets.
* Added filters for the stream class these filters are:
  + Only show Tweets that are in English (‘en’).
  + Only show tweets based on integrated hard coded search word(s)/phrase(s)
* Added filters for the search class these filters are:
  + Only show tweets based on integrated hard coded search word(s)/phrase(s)
* Printed the results of only the date of the tweet(s) and the text of the tweet(s).
* Writing results of the stream to a .txt file.

**To-do in relation to the above coding work**

* To added English filter to the search class.
* Make so only original tweets are returned not the retweets, likes or replies.
* Currently the .txt file is being overwritten with each iteration meaning only 1 tweet is written. This is to be fixed so the .txt file is only created once and is then added to not over written with new tweets.