W205 Exercise 2 - Architecture

Critical File Locations:

MIDS 205 twitter wordcount			
/data			
	top 20 counts.csv		
	top 20 words.png		
/screenshots	top_zo_wordo.prig		
<u>//ociceriorioto</u>	final_results_test.png		
	histogram_test.png		
	sparse.png		
/serving_scripts			
	README		
	finalresults.py		
	histogram.py		
/tweetwordcount			
	/topologies		
		tweetwordcount.clj	
	/src		
		/bolts	
			parse.py
			wordcount.py
		/spouts	
			tweets.py
README			
build_tcount.py			

Storm Topology:

root@ip-172-31-61-152:/data/ex_2/tweetwordcount/topologies

Instructions:

- 1. Insert independent key & token for Twitter app into tweetwordcount/src/spout/**tweets.py**.
- 2. Run **build_tcount.py** setup script.
- 3. Run Streamparse:
 - \$ cd tweetwordcount
 - \$ sparse run
- 4. Run serving scripts, **finalresults.py** & **histogram.py** (see 'serving_scripts' folder for more details).

Serving Scripts:

 finalresults.py - Script that takes one word as an argument & replies with the total number of occurences for the word in the stream. If no arguments are passed, script will return all words in stream & their total number of occurences, sorted alphabetically in ascending order.

Example: \$ python finalresults.py hello \$ Total number of occurences of 'hello': 10 \$ \$ python finalresults.py \$ (Also, 2)

2. **histogram.py** - Script that takes two integers (k1,k2) [No space] & returns all words in the stream that have a greater (or equal) number of occurrences than k1 & less (or equal number of) occurances than k2.

Example:

\$...

\$ (Amazing, 1)

\$ (Americans, 3)

\$...

\$..

```
$ python histogram.py 3,8
$ (Announces, 7)
$ (At, 4)
$ (Day, 3)
```