ReadMe:

1. Open a terminal, locate and 'cd' into kafka, then run:

start zookeper server: bin/zookeeper-server-start.sh config/zookeeper.properties start Kafka server: bin/kafka-server-start.sh config/server.properties

2. Open a tab in terminal window and create a topic:

```
bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic <topic name>
```

to see list of topics:

bin/kafka-topics.sh --list --bootstrap-server localhost:9092

3. Open a tab in terminal window and start a producer:

bin/kafka-console-producer.sh --broker-list localhost:9092 --topic <topic name>

4. Open a tab in terminal window and start a consumer

bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic <topic_name> --from-beginning

5. Given spark is installed and path is saved in the environment variable, run:

spark-submit --packages org.apache.spark:spark-sql-kafka-0-10_2.11:2.4.0 --class <className> <Path to jar file> <Kafka topic name> <consumerKey> <consumerSecret> <accessToken> <accessToken> caccessToken> <accessToken> <accessT

Eg:- spark-submit --packages org.apache.spark:spark-sql-kafka-0-10_2.11:2.4.0 --class Part1 kafka-assembly-0.1.jar topic2 <consumerKey> <consumerSecret> <accessToken> <accessTokenSecret>

Get the jar file from here: https://kafka-twitter-bucket.s3.amazonaws.com/kafka-assembly-0.1.jar

6. Download and install Elasticsearch, Kibana and Logstash (configure it too).

```
output {
     elasticsearch {
         hosts => ["localhost:9200"]
         index => "YourTopic-index"
         }
}
```

Then run logstash: bin/logstash -f logstash-simple.conf (after 'cd' into Logstash directory)

7. Get visualization on the http://localhost:5601