```
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat
```

FINISHED ▷ ⅔ 📖 ⚙

```
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat
```

Took 24 sec. Last updated by anonymous at January 26 2017, 8:02:15 PM.

```
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
import scala.io.Source
import scala.collection.mutable.HashMap
import java.io.File
import org.apache.log4j.Logger
import org.apache.log4j.Level
import sys.process.stringSeqToProcess
```

FINISHED ▷ ⅔ 📖 ⚙

```
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
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```

AP_Sentiment Took 3 sec. Last updated by anonymous at January 26 2017, 8:02:20 PM.

Untitled Untitled Untitled Untitled Untitled Untitled Untitled Untitled
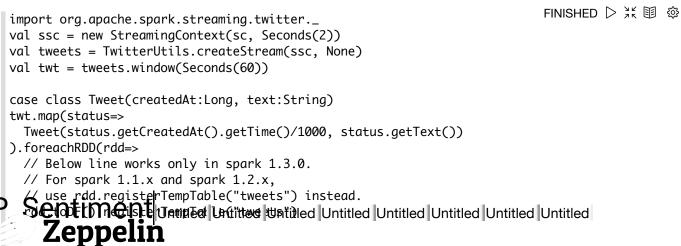
```
/** Configures the Oauth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, acces
  val configs = new HashMap[String, String] ++= Seq(
    "apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenS
  println("Configuring Twitter OAuth")
  configs.foreach{ case(key, value) =>
    if (value.trim.isEmpty) {
      throw new Exception("Error setting authentication - value for " + key + " not set")
    }
    val fullKey = "twitter4j.oauth." + key.replace("api", "consumer")
    System.setProperty(fullKey, value.trim)
    println("\tProperty " + fullKey + " set as [" + value.trim + "]")
  }
  println()
}
```

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```
configureTwitterCredentials: (apiKey: String, apiSecret: String, accessToken: String, accessTo
kenSecret: String)Unit
```

Took 3 sec. Last updated by anonymous at January 26 2017, 8:04:49 PM.

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```
// Configure Twitter credentials
val apiKey = "ANhILDStSOVTkKDMvRuQw74mkr"
val apiSecret = "4sk8qrblOBEVESUmKAEcdL6SC715tR8alqwUI7UjgG4z77eR5Z"
val accessToken = "407457723ba6fevUNOto1wywGyqmkxhwb50AFX8PW0aLSXex2"
val accessTokenSecret = "1TMHrUSWkGY2pWnGsQ3DKqOfqUca1kNzAa6MfBLKt6fPC"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

apiKey: String = MU3nOCNZMF5Lx5hhbne1PjnBr
apiSecret: String = RzwK2SzFfYmqw16IElnNjaoO9cCNoswaQOxz09C2jh1Jj5Mrdj
accessToken: String = 35301383570GrjP1SVMRa5MyhAVRrabO4fJYKuKFPqrPlRSbY
accessTokenSecret: String = JZzbOyeJ8a4asGo0a4HYvsd6cNugvYOPkELNQ9xYelnDY
Configuring Twitter OAuth
        Property twitter4j.oauth.consumerKey set as [MU3nOCNZMF5Lx5hhbne1PjnBr]
        Property twitter4j.oauth.accessToken set as [35301383570GrjP1SVMRa5MyhAVRrabO4fJYKuKFP
qrPlRSbY]
        Property twitter4j.oauth.consumerSecret set as [RzwK2SzFfYmqw16IElnNjaoO9cCNoswaQOxz09
C2jh1Jj5Mrdj]
        Property twitter4j.oauth.accessTokenSecret set as [JZzbOyeJ8a4asGo0a4HYvsd6cNugvYOPkEL
NQ9xYelnDY]

Took 3 sec. Last updated by anonymous at January 26 2017, 8:04:55 PM. (outdated)

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```
import org.apache.spark.streaming.twitter._
val ssc = new StreamingContext(sc, Seconds(2))
val tweets = TwitterUtils.createStream(ssc, None)
val twt = tweets.window(Seconds(60))

case class Tweet(createdAt:Long, text:String)
twt.map(status=>
  Tweet(status.getCreatedAt().getTime()/1000, status.getText())
).foreachRDD(rdd=>
  // Below line works only in spark 1.3.0.
  // For spark 1.1.x and spark 1.2.x,
  // use rdd.registerTempTable("tweets") instead.
  rdd.toDF().registerTempTable("tweets")
)

twt.print

ssc.start()
```

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```
Time: 1485479594000 ms
-------------------------------------------
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Time: 1485479596000 ms
-------------------------------------------
-------------------------------------------
Time: 1485479598000 ms
-------------------------------------------
-------------------------------------------
Time: 1485479600000 ms
-------------------------------------------
-------------------------------------------
Time: 1485479602000 ms
-------------------------------------------
-------------------------------------------
Time: 1485479604000 ms
-------------------------------------------
-------------------------------------------
```

Took 9 sec. Last updated by anonymous at January 26 2017, 8:05:22 PM.

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`%sql select * from tweets where text like '%Modi%' limit 10`

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Zeppelin

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Took 0 sec. Last updated by anonymous at January 26 2017, 8:27:10 PM.

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`%sql select createdAt,count(1) from tweets group by createdAt order by createdAt`

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Took 3 sec. Last updated by anonymous at January 26 2017, 8:07:51 PM.

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