Using Apache Spark: With Cloudera quickstart_tutorial

```
<wordcount>
로컬 파일 확인
> Is
1
Downloads txt file to execute wordcount example
> wget http://inst.eecs.berkeley.edu/~cs61a/fa11/shakespeare.txt
> Is
3
하둡에 폴더 만들기
> sudo -u hdfs hadoop fs -mkdir /spark exam/
하둡으로 복사
> hadoop fs -copyFromLocal ./shakespeare.txt /spark exam
확인
> hadoop fs -ls /spark exam
4
스파크 띄우기
>spark-shell --jars /usr/lib/avro/avro-mapred.jar \ --conf
spark.serializer=org.apache.spark.serializer.KryoSerializer
5,6
> val file = sc.textFile("hdfs://quickstart.cloudera/spark exam/
shaekspeare.txt")
7
> val counts = file.flatMap(line => line.split(" ")).map(word => (word,
1)).reduceByKey(_ + _)
8
> counts.saveAsTextFile("hdfs://quickstart.cloudera/spark exam/wordcount")
9,10
```

```
> counts.count()
11,12
> counts.toArray().foreach(println)
13
> exit
>hadoop fs -ls /spark exam/wordcount
14
<estmating Pi>
>spark-shell --jars /usr/lib/avro/avro-mapred.jar \
--conf spark.serializer=org.apache.spark.serializer.KryoSerializer
> val count = sc.parallelize(1 to NUM_SAMPLE).map{i =>
     val x = Math.random()
     val y = Math.random()
     if(x^*x + y^*y < 1) 1 else 0
}.reduce(_ + _)
> println("Pi is roughly " + 4.0*count / NUM_SAMPLE)
* NUM_SAMPLE : the number of throwing dart.
```

> Is

> wget

확인

> Is

> sudo -u hdfs hadoop fs -mkdir /spark_exam/logistics_data

하둡으로 복사

> hadoop fs -copyFromLocal ./sample_libsvm_data.txt /spark_exam/ logisctics_data

확인

> hadoop fs -ls /spark_exam/linear_data

스파크 띄우기

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>