- 1. There are two parts this case study
- First Part- You have to create a Spark Application which streams data from a file on local directory on your machine and does the word count on the fly. The word should be done by the spark application in such a way that as soon as you drop the file in your local directory, your spark application should immediately do the word count for you.

## Code:

```
--/juear-rojects/untitieu1] - .../src/mani/scala/casestuuy> lask1.scala [untitieu1] - inteinj ib
<u> Z</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp
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                                                                                   CaseStudy5Task1 ▼ ▶ 🗰 🔞 🔲 🔯 Q
ain 🕽 🖿 scala 🕽 🧿 CaseStudy5Task1.scala 🗦

    CaseStudy5Task1.scala ×
    KafkaAndSparkStreaming.scala ×

            import org.apache.spark.{SparkConf, SparkContext}
un
            import org.apache.spark.streaming.{Seconds, StreamingContext}
            import org.apache.log4j.{Level,Logger}
            import org.apache.spark.SparkConf
d]
            import org.apache.spark.streaming.
            object CaseStudy5Task1{
    8
    9 1
              def main(args: Array[String]) : Unit {
                val sparkConf = new SparkConf().setAppName("TextFileStream").setMaster("local[*]")
   10
                val ssc = new StreamingContext(sparkConf, Seconds(10))
val lines = ssc.textFileStream( directory = "/home/acadgild/casestudy5")
   11
Ta:
   13
                val wordcounts = lines.flatMap(line => lines.split( regex = " ").map(word =>(word,1))).reduceByKey(_ +
   14
                wordcounts.print()
itre 15
                ssc.start()
                ssc.awaitTermination()
   16
   18
   19
          9
```

## Input:

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost casestudy5]$ cat >> task_1

Fitest spark streaming
1: test
mc this us a test file
: ^C
You have new mail in /var/spool/mail/acadgild
: [acadgild@localhost casestudy5]$ 
Clared 0 ald files that were alder than 15348807580000 ms;
```

## Output

```
18/08/22 01:17:05 INFO JobScheduler: Total delay: 5.441 s for time 1534880820000 ms (execution: 2.334 s)
18/08/22 01:17:05 INFO ShuffledRDD: Removing RDD 11 from persistence list

Time: 1534880820000 ms

(spark, 1)
(streaming, 1)
(test, 2)

18/08/22 01:17:05 INFO TaskSetManager: Finished task 0.0 in stage 7.0 (TID 4) in 413 ms on localhost (1/1)
18/08/22 01:17:05 INFO TaskSchedulerImpl: Removed TaskSet 7.0, whose tasks have all completed, from pool
18/08/22 01:17:05 INFO RlockManager: Removing RDD 11
```

- Second Part In this part, you will have to create a Spark Application which should do the following
- 1. Pick up a file from the local directory and do the word count
- 2. Then in the same Spark Application, write the code to put the same file on HDFS.
- 3. Then in same Spark Application, do the word count of the file copied on HDFS in step 2
- 4. Lastly, compare the word count of step 1 and 2. Both should match, other throw an error

## Output:

```
/usr/java/jdk1.8.0 151/bin/java ..
Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties
18/08/27 15:52:21 INFO SparkContext: Running Spark version 1.6.0
18/08/27 15:52:30 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appl
18/08/27 15:52:33 WARN Utils: Your hostname, localhost localdomain resolves to a loopback address: 127.0.0.1; using 10.0.2.15 instead (c 18/08/27 15:52:33 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
18/08/27 15:52:34 INFO SecurityManager: Changing view acls to: acadgild
18/08/27 15:52:34 INFO SecurityManager: Changing modify acls to: acadgild
18/08/27 15:52:34 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: Set(aca
18/08/27 15:52:42 INFO Utils: Successfully started service 'sparkDriver' on port 36263.
18/08/27 15:52:44 INFO SIf4jLogger: SIf4jLogger started
18/08/27 15:52:44 INFO Remoting: Starting remoting
18/08/27 15:52:44 INFO Remoting: Remoting started; listening on addresses:[akka.tcp://sparkDriverActorSystem@10.0.2.15:41030]
18/08/27 15:52:45 INFO Utils: Successfully started service 'sparkDriverActorSystem' on port 41030.
18/08/27 15:52:45 INFO SparkEnv: Registering MapOutputTracker
18/08/27 15:52:45 INFO SparkEnv: Registering BlockManagerMaster
18/08/27 15:52:45 INFO DiskBlockManager: Created local directory at /tmp/blockmgr-72a964ed-ae3e-4f75-b683-51dbd76ed1f0
18/08/27 15:52:45 INFO MemoryStore: MemoryStore started with capacity 139.0 MB
18/08/27 15:52:45 INFO SparkEnv: Registering OutputCommitCoordinator
18/08/27 15:52:46 INFO Utils: Successfully started service 'SparkUI' on port 4040.
18/08/27 15:52:46 INFO SparkUI: Started SparkUI at http://10.0.2.15:4040
18/08/27 15:52:46 INFO Executor: Starting executor ID driver on host localhost 18/08/27 15:52:46 INFO Utils: Successfully started service 'org.apache.spark.network.netty.NettyBlockTransferService' on port 45905.
18/08/27 15:52:46 INFO NettyBlockTransferService: Server created on 45905 18/08/27 15:52:46 INFO BlockManagerMaster: Trying to register BlockManager
18/08/27 15:52:46 INFO BlockManagerMasterEndpoint: Registering block manager localhost:45905 with 139.0 MB RAM, BlockManagerId(driver,
18/08/27 15:52:46 INFO BlockManagerMaster: Registered BlockManager
18/08/27 15:52:49 INFO MemoryStore: Block broadcast_0 stored as values in memory (estimated size 107.7 KB, free 107.7 KB)
18/08/27 15:52:49 INFO MemoryStore: Block broadcast_O_pieceO stored as bytes in memory (estimated size 9.8 KB, free 117.5 KB)
18/08/27 15:52:49 INFO BlockManagerInfo: Added broadcast_0_piece0 in memory on localhost:45905 (size: 9.8 KB, free: 139.0 MB)
18/08/27 15:52:49 INFO SparkContext: Created broadcast 0 from textFile at CaseStudy5Task2.scala:23
18/08/27 15:52:59 INFO MemoryStore: Block broadcast_1 stored as values in memory (estimated size 59.6 KB, free 177.0 KB)
18/08/27 15:53:00 INFO MemoryStore: Block broadcast_1_piece0 stored as bytes in memory (estimated size 13.8 KB, free 190.8 KB)
18/08/27 15:53:00 INFO BlockManagerInfo: Added broadcast_1_piece0 in memory on localhost:45905 (size: 13.8 KB, free: 139.0 MB)
18/08/27 15:53:00 INFO SparkContext: Created broadcast 1 from textFile at CaseStudy5Task2.scala:38
```

```
CaseStudy5Task2
                                                                                                                                                                                                                                                                                                                                                             泰- 上
            18/08/27 15:53:01 INFO FileInputFormat: Total input paths to process : 1
18/08/27 15:53:01 INFO FileInputFormat: Total input paths to process : 1
            18/08/27 15:53:02 INFO deprecation: mapred.tip.id is deprecated. Instead, use mapreduce.task.id
            18/08/27 15:53:02 INFO deprecation: mapred.task.id is deprecated. Instead, use mapreduce.task.attempt.id
18/08/27 15:53:02 INFO deprecation: mapred.task.is.map is deprecated. Instead, use mapreduce.task.ismap 18/08/27 15:53:02 INFO deprecation: mapred.task.partition is deprecated. Instead, use mapreduce.task.partition
1
          18/08/27 15:53:02 INFO deprecation: mapred.task.partition is deprecated. Instead, use mapreduce.task.partition 18/08/27 15:53:02 INFO deprecation: mapred.job.id is deprecated. Instead, use mapreduce.job.id 18/08/27 15:53:03 INFO SparkContext: Starting job: saveAsTextFile at CaseStudy5Task2.scala:45 18/08/27 15:53:03 INFO DAGScheduler: Registering RDD 6 (map at CaseStudy5Task2.scala:42) 18/08/27 15:53:03 INFO DAGScheduler: Got job 0 (saveAsTextFile at CaseStudy5Task2.scala:45) 18/08/27 15:53:03 INFO DAGScheduler: Final stage: ResultStage 1 (saveAsTextFile at CaseStudy5Task2.scala:45) 18/08/27 15:53:03 INFO DAGScheduler: Parents of final stage: List(ShuffleMapStage 0) 18/08/27 15:53:03 INFO DAGScheduler: Missing parents: List(ShuffleMapStage 0)
            18/08/27 15:53:04 INFO DAGScheduler: Submitting ShuffleMapStage 0 (MapPartitionsRDD[6] at map at CaseStudySTask2.scala:42), which has no
           18/08/27 15:53:04 INFO DAGScheduler: Submitting ShuffleMapStage 0 (MapPartitionsRDD[6] at map at CaseStudy5Task2.scala:42), which has not 18/08/27 15:53:04 INFO MemoryStore: Block broadcast_2 stored as values in memory (estimated size 3.9 KB, free 194.8 KB) 18/08/27 15:53:04 INFO MemoryStore: Block broadcast_2_piece0 stored as bytes in memory (estimated size 2.2 KB, free 197.0 KB) 18/08/27 15:53:04 INFO BlockManagerInfo: Added broadcast_2_piece0 in memory on localhost:45905 (size: 2.2 KB, free: 139.0 MB) 18/08/27 15:53:04 INFO BlockManagerInfo: Added broadcast_2 from broadcast at DAGScheduler.scala:1006 18/08/27 15:53:04 INFO DAGScheduler: Submitting 1 missing tasks from ShuffleMapStage 0 (MapPartitionsRDD[6] at map at CaseStudy5Task2.sc 18/08/27 15:53:05 INFO TaskSchedulerImpl: Adding task set 0.0 with 1 tasks 18/08/27 15:53:05 INFO TaskSchedulerImpl: Adding task set 0.0 with 1 tasks 18/08/27 15:53:05 INFO TaskSchedulerImpl: Adding task 0.0 in stage 0.0 (TID 0) localhost, partition 0,PROCESS_LOCAL, 2047 bytes) 18/08/27 15:53:05 INFO HaddoopRDD: Input split: file:/home/acadgild/casestudy5/task_1:0+46 18/08/27 15:53:05 INFO Executor: Finished task 0.0 in stage 0.0 (TID 0) in 1462 was on localhost (1/1)
            18/08/27 15:53:06 INFO TaskSetManager: Finished task 0.0 in stage 0.0 (TID 0) in 1462 ms on localhost (1/1)
            18/08/27 15:53:06 INFO TaskSchedulerImpl: Removed TaskSet 0.0, whose tasks have all completed, from pool 18/08/27 15:53:06 INFO DAGScheduler: ShuffleMapStage 0 (map at CaseStudy5Task2.scala:42) finished in 1.699 s 18/08/27 15:53:06 INFO DAGScheduler: looking for newly runnable stages
           18/08/27 15:53:06 INFO DAGScheduler: running: Set()
18/08/27 15:53:06 INFO DAGScheduler: waiting: Set(ResultStage 1)
18/08/27 15:53:06 INFO DAGScheduler: suiting: Set(ResultStage 1)
18/08/27 15:53:06 INFO DAGScheduler: failed: Set()
18/08/27 15:53:06 INFO DAGScheduler: Submitting ResultStage 1 (MapPartitionsRDD[10] at saveAsTextFile at CaseStudy5Task2.scala:45), which
            18/08/27 15:53:06 INFO MemoryStore: Block broadcast_3 stored as values in memory (estimated size 48.6 KB, free 245.5 KB)
18/08/27 15:53:06 INFO MemoryStore: Block broadcast_3_piece0 stored as bytes in memory (estimated size 16.9 KB, free 262.5 KB)
            18/08/27 15:53:06 INFO BlockManagerInfo: Added broadcast 3 piece0 in memory on localhost:45905 (size: 16.9 KB, free: 138.9 MB)
                                                                                                                                                                                                                                                                              I files are up-to-date (3 minutes ago)
```

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☆- ±
    CaseStudy5Task2 >
    18/08/27 15:53:06 INFO SparkContext: Created broadcast 3 from broadcast at DAGScheduler.scala:1006
18/08/27 15:53:06 INFO DAGScheduler: Submitting 1 missing tasks from ResultStage 1 (MapPartitionsRDD[10] at saveAsTextFile at CaseStudy:
18/08/27 15:53:06 INFO TaskSchedulerImpl: Adding task set 1.0 with 1 tasks
18/08/27 15:53:06 INFO TaskSetManager: Starting task 0.0 in stage 1.0 (TID 1, localhost, partition 0,NODE_LOCAL, 1813 bytes)
18/08/27 15:53:06 INFO Executor: Running task 0.0 in stage 1.0 (TID 1)
     18/08/27 15:53:07 INFO deprecation: mapred.output.dir is deprecated. Instead, use mapreduce.output.fileoutputformat.outputdir
     18/08/27 15:53:07 INFO deprecation: mapred.output.key.class is deprecated. Instead, use mapreduce.job.output.key.class
     18/08/27 15:53:07 INFO deprecation: mapred.output.value.class is deprecated. Instead, use mapreduce.job.output.value.class
     18/08/27 15:53:07 INFO deprecation: mapred.working.dir is deprecated. Instead, use mapreduce.job.working.dir
    18/08/27 15:53:07 INFO ShuffleBlockFetcherIterator: Getting 1 non-empty blocks out of 1 blocks 18/08/27 15:53:07 INFO ShuffleBlockFetcherIterator: Started 0 remote fetches in 41 ms
    18/08/27 15:53:07 INFO ShuffleetockFetcherIterator: Started 0 Femiote Tetches in 41 ms
18/08/27 15:53:07 INFO FileOutputCommitter: Saved output of task 'attempt_201808271553_0001_m_0000000_1' to file:/home/acadgild/casestudy
18/08/27 15:53:07 INFO SparkHadoopMapRedUtil: attempt_201808271553_0001_m_0000000_1: Committed
18/08/27 15:53:07 INFO Executor: Finished task 0.0 in stage 1.0 (TID 1). 1165 bytes result sent to driver
18/08/27 15:53:07 INFO DAGScheduler: ResultStage 1 (saveAsTextFile at CaseStudy5Task2.scala:45) finished in 0.668 s
18/08/27 15:53:07 INFO TaskSchedulerImpl: Removed TaskSet 1.0, whose tasks have all completed, from pool
     18/08/27 15:53:07 INFO DAGScheduler: Job 0 finished: saveAsTextFile at CaseStudy5Task2.scala:45, took 3.966912 s
     18/08/27 15:53:07 INFO BlockManagerInfo: Removed broadcast_3_piece0 on localhost:45905 in memory (size: 16.9 KB, free: 139.0 MB)
    18/08/27 15:53:07 INFO SparkContext: Starting job: saveAsTextFile at CaseStudy5Task2.scala:46 18/08/27 15:53:07 INFO DAGScheduler: Registering RDD 8 (map at CaseStudy5Task2.scala:43) 18/08/27 15:53:07 INFO DAGScheduler: Got job 1 (saveAsTextFile at CaseStudy5Task2.scala:46) with 1 output partitions
     18/08/27 15:53:07 INFO DAGScheduler: Final stage: ResultStage 3 (saveAsTextFile at CaseStudy5Task2.scala:46)
     18/08/27 15:53:07 INFO DAGScheduler: Parents of final stage: List(ShuffleMapStage 2)
    18/08/27 15:53:07 INFO DAGScheduler: Parents of final stage: List(shuffleMapStage 2)
18/08/27 15:53:07 INFO DAGScheduler: Missing parents: List(ShuffleMapStage 2)
18/08/27 15:53:07 INFO DAGScheduler: Submitting ShuffleMapStage 2 (MapPartitionsRDD[8] at map at CaseStudy5Task2.scala:43), which has not 18/08/27 15:53:07 INFO MemoryStore: Block broadcast 4 stored as values in memory (estimated size 3.9 KB, free 200.9 KB)
18/08/27 15:53:07 INFO MemoryStore: Block broadcast 4 piece0 stored as bytes in memory (estimated size 2.2 KB, free 203.1 KB)
18/08/27 15:53:07 INFO BlockManagerInfo: Added broadcast 4 piece0 in memory on localhost:45905 (size: 2.2 KB, free: 139.0 MB)
18/08/27 15:53:07 INFO SparkContext: Created broadcast 4 from broadcast at DAGScheduler.scala:1006
18/08/27 15:53:07 INFO DAGScheduler: Submitting 1 missing tasks from ShuffleMapStage 2 (MapPartitionsRDD[8] at map at CaseStudy5Task2.sc
     18/08/27 15:53:07 INFO TaskSchedulerImpl: Adding task set 2.0 with 1 tasks
    18/08/27 15:53:07 INFO TaskSetManager: Starting task 0.0 in stage 2.0 (TID 2, localhost, partition 0,PROCESS_LOCAL, 2049 bytes) 18/08/27 15:53:07 INFO Executor: Running task 0.0 in stage 2.0 (TID 2)
     18/08/27 15:53:07 INFO HadoopRDD: Input split: hdfs://localhost:8020/casestudy5/task_1:0+46
les are up-to-date (3 minutes ago)
```

```
### 18/88/27 15:53:08 INFO DAGScheduler: ShuffleMapStage 2 (map at CaseStudy5Task2.scala:43) finished in 0.271 s

### 18/88/27 15:53:08 INFO DAGScheduler: Hooking for newly runnable stages

### 18/88/27 15:53:08 INFO DAGScheduler: waiting: Set()

### 18/88/27 15:53:08 INFO DAGScheduler: waiting: Set()

### 18/88/27 15:53:08 INFO DAGScheduler: waiting: Set()

### 18/88/27 15:53:08 INFO DAGScheduler: Submitting ResultStage 3)

### 18/88/27 15:53:08 INFO DAGScheduler: Submitting ResultStage 3 (MapPartitionsRDD[11] at saveAsTextFile at CaseStudy5Task2.scala:46), whice the provided in th
```

```
18/08/27 15:53:08 INFO ContextCleaner: Cleaned accumulator 3
18/08/27 15:53:08 INFO BlockManagerInfo: Radded broadcast_6_piece0 in memory on localhost:45905 (size: 1517.0 B, free: 138.9 MB)
18/08/27 15:53:08 INFO BlockManagerInfo: Removed broadcast_4_piece0 on localhost:45905 in memory (size: 2.2 KB, free: 138.9 MB)
18/08/27 15:53:08 INFO BlockManagerInfo: Removed broadcast_5_piece0 on localhost:45905 in memory (size: 16.9 KB, free: 139.0 MB)
18/08/27 15:53:08 INFO BlockManagerInfo: Removed broadcast_5_piece0 on localhost:45905 in memory (size: 16.9 KB, free: 139.0 MB)
18/08/27 15:53:08 INFO DAGScheduler: Submitting 1 missing tasks from ResultStage 5 (ShuffledRDD[7] at reduceByKey at CaseStudySTask2.sca
18/08/27 15:53:08 INFO TaskScthanager: Starting task 8.0 in stage 5.0 (TID 4)
18/08/27 15:53:08 INFO TaskScthanager: Starting task 8.0 in stage 5.0 (TID 4)
18/08/27 15:53:08 INFO Executor: Running task 0.0 in stage 5.0 (TID 4)
18/08/27 15:53:08 INFO ShuffleBlockFetcherIterator: Getting 1 non-empty blocks out of 1 blocks
18/08/27 15:53:08 INFO ShuffleBlockFetcherIterator: Getting 1 non-empty blocks out of 1 blocks
18/08/27 15:53:08 INFO DAGScheduler: ResultStage 5 (Collect at CaseStudySTask2.scala:55) finished in 0.031 s
18/08/27 15:53:08 INFO DAGScheduler: ResultStage 5 (Collect at CaseStudySTask2.scala:55) finished in 0.031 s
18/08/27 15:53:08 INFO DAGScheduler: Brown of the stage 5.0 (TID 4) in stage 5.0 (TID 4)
```

```
10/00/27 15:53:00 INFO DAGScheduler: Parents of final stage: List(ShuffleMapStage 6) 18/08/27 15:53:08 INFO DAGScheduler: Missing parents: List()
18/08/27 15:53:08 INFO DAGScheduler: Submitting ResultStage 7 (ShuffledRDD[9] at reduceByKey at CaseStudy5Task2.scala:43), which has no
18/08/27 15:53:08 INFO MemoryStore: Block broadcast 7 stored as values in memory (estimated size 2.5 KB, free 203.4 KB) 18/08/27 15:53:08 INFO ContextCleaner: Cleaned accumulator 5
18/08/27 15:53:08 INFO BlockManagerInfo: Removed broadcast_6_piece0 on localhost:45905 in memory (size: 1517.0 B, free: 139.0 MB)
18/08/27 15:55:08 INFO BLOCKManagerInfo: Removed broadcast_6_pieceo on tocathost:49905 in memory (size: 1517.0 B, free: 139.0 MB)
18/08/27 15:55:08 INFO MemoryStore: Block broadcast_7_pieceo in memory on locathost:45905 (size: 1508.0 B, free: 139.0 MB)
18/08/27 15:55:08 INFO BlockManagerInfo: Added broadcast_7_pieceo in memory on locathost:45905 (size: 1508.0 B, free: 139.0 MB)
18/08/27 15:55:08 INFO SparkContext: Created broadcast 7 from broadcast at DAGScheduler.scala:1006
18/08/27 15:55:08 INFO DAGScheduler: Submitting 1 missing tasks from ResultStage 7 (ShuffledRDD[9] at reduceByKey at CaseStudy5Task2.scala/08/27 15:55:08 INFO TaskSchedulerImpl: Adding task set 7.0 with 1 tasks
18/08/27 15:55:08 INFO TaskSchedulerImpl: Adding task o.0 in stage 7.0 (TID 5, localhost, partition 0,NODE_LOCAL, 1813 bytes)
18/08/27 15:55:08 INFO TaskSchedulerTask 0.0 in stage 7.0 (TID 5, localhost, partition 0,NODE_LOCAL, 1813 bytes)
18/08/27 15:53:08 INFO ShuffleBlockFetcherIterator: Getting 1 non-empty blocks out of 1 blocks 18/08/27 15:53:08 INFO ShuffleBlockFetcherIterator: Started 0 remote fetches in 0 ms 18/08/27 15:53:08 INFO Executor: Finished task 0.0 in stage 7.0 (TID 5). 1427 bytes result sent to driver
18/08/27 15:53:08 INFO DAGScheduler: ResultStage 7 (collect at CaseStudy5Task2.scala:57) finished in 0.021 s 18/08/27 15:53:08 INFO DAGScheduler: Job 3 finished: collect at CaseStudy5Task2.scala:57, took 0.081207 s 18/08/27 15:53:08 INFO TaskSetManager: Finished task 0.0 in stage 7.0 (TID 5) in 29 ms on localhost (1/1) 18/08/27 15:53:08 INFO TaskSchedulerImpl: Removed TaskSet 7.0, whose tasks have all completed, from pool
 (us,1)(this,1)(spark,1)(a,1)(streaming,1)(file,1)(test,3)18/08/27 15:53:09 INFO SparkUI: Stopped Spark web UI at http://10.0.2.15:4040
18/08/27 15:53:09 INFO MapOutputTrackerMasterEndpoint: MapOutputTrackerMasterEndpoint stopped! 18/08/27 15:53:09 INFO MemoryStore: MemoryStore cleared
18/08/27 15:53:09 INFO BlockManager: BlockManager stopped
18/08/27 15:53:09 INFO BlockManagerMaster: BlockManagerMaster stopped
18/08/27 15:53:09 INFO OutputCommitCoordinator$OutputCommitCoordinatorEndpoint: OutputCommitCoordinator stopped!
18/08/27 15:53:09 INFO SparkContext: Successfully stopped SparkContext
18/08/27 15:53:09 INFO RemoteActorRefProvider$RemotingTerminator: Shutting down remote daemon.
18/08/27 15:53:09 INFO RemoteActorRefProvider$RemotingTerminator: Remote daemon shut down; proceeding with flushing remote transports. 18/08/27 15:53:09 INFO ShutdownHookManager: Shutdown hook called
18/08/27 15:53:09 INFO ShutdownHookManager: Deleting directory /tmp/spark-e95f855b-8ce2-4e33-8eba-56d457a649af
                                                                                                                                                                                                                                              I
Process finished with exit code 0
```