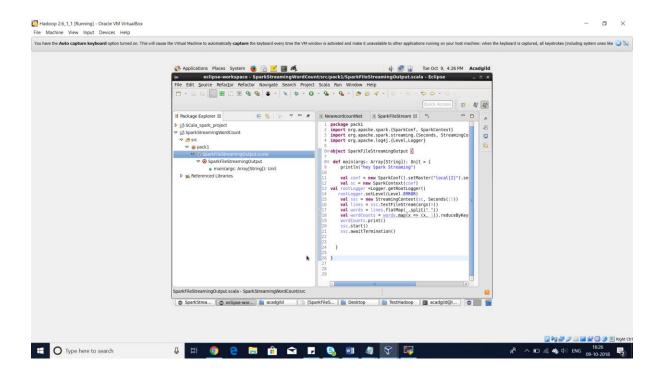
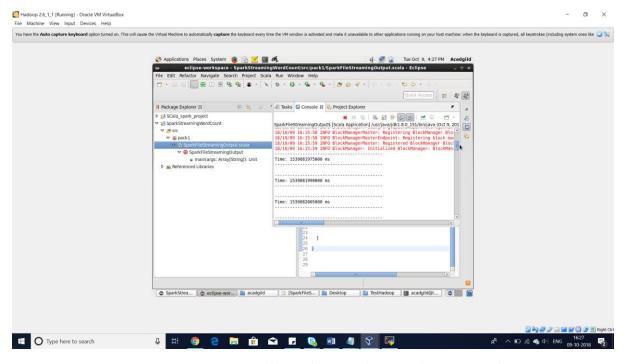
There are two parts this case study

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.

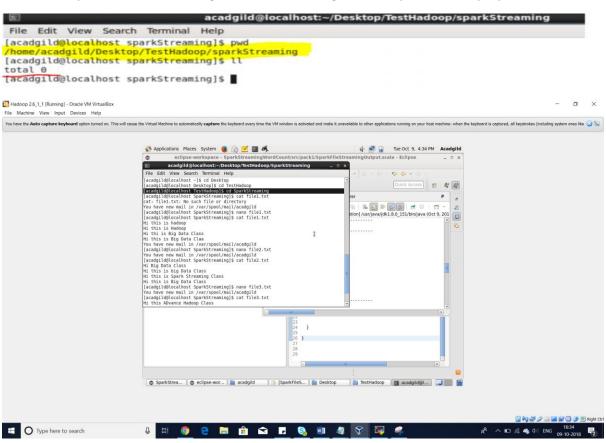
Second Part - In this part, you will have to create a Spark Application which should do the following

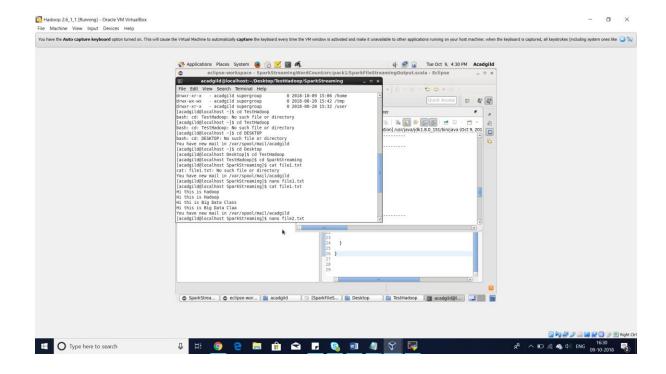
- 1. Pick up a file from the local directory and do the word count
- 2. Then in the same Spark Application, write the code to put the same file on HDFS.
- 3. Then in same Spark Application, do the word count of the file copied on HDFS in step 2
- 4. Lastly, compare the word count of step 1 and 2. Both should match, other throw an error

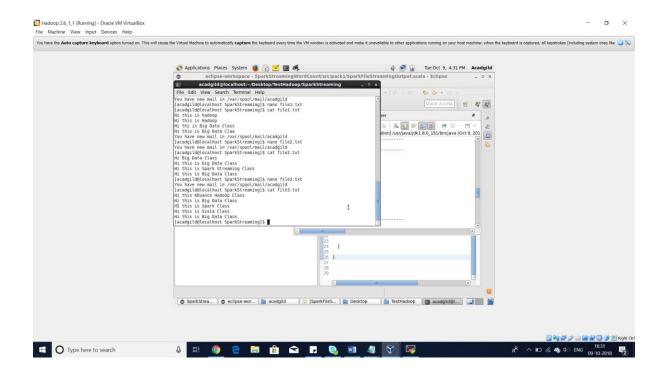




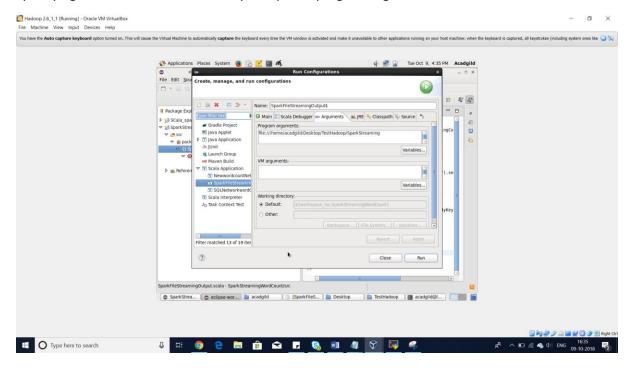
The Directory created for streaming file is: /home/acadgild/Desktop/TestHadoop/SparkStreamin



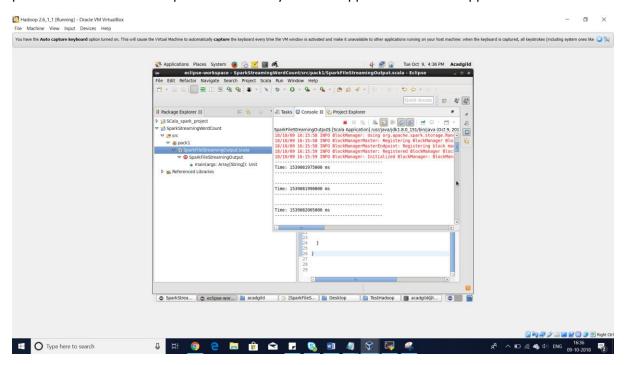




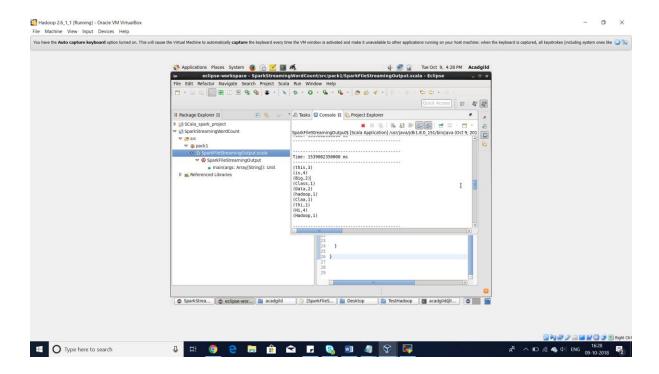
Specifying the above created directory as input to program arguments



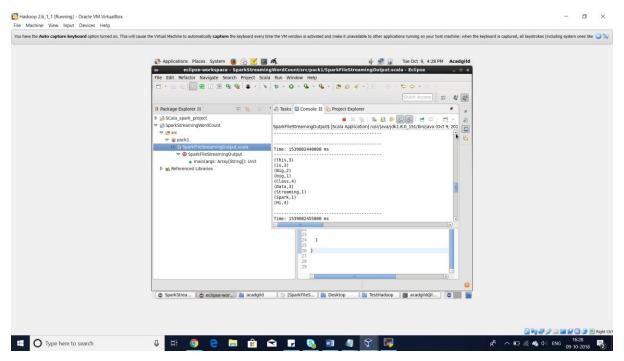
arg(0) specified within the program reads entire files that are getting added to the above directory & performs the word count operation on the fly. Run the application as Scala Application.

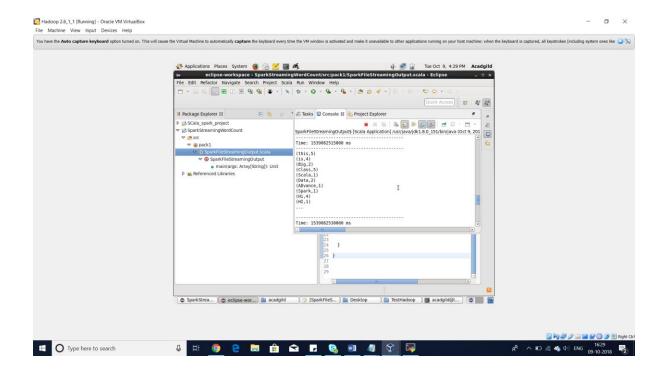


The contents of file1.txt getting read by spark streaming application and computing word count on the fly.



Similarly, creating two other files file2.txt & file3.txt whose words would be counted by spark streaming application on the fly



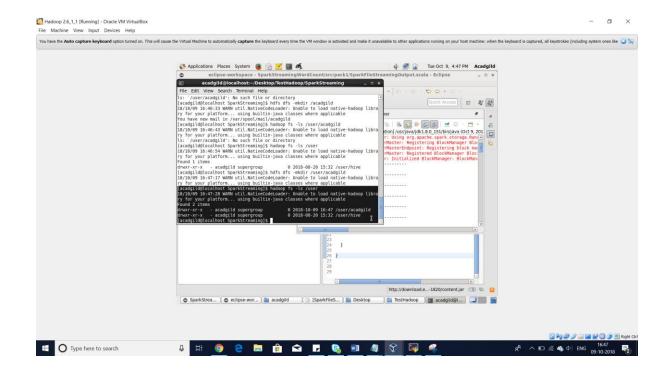


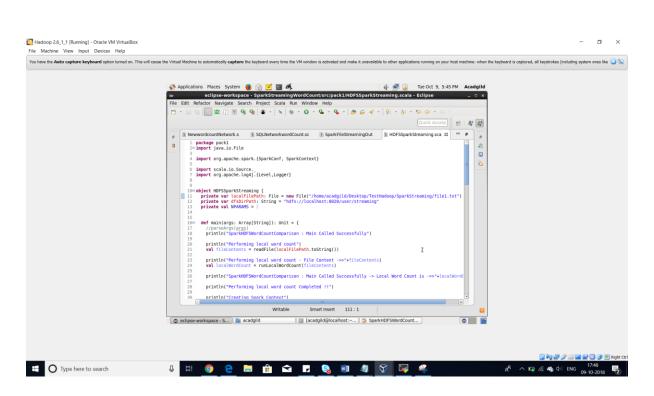
Objective 2: Second Part - In this part, you will have to create a Spark Application which should do the following:

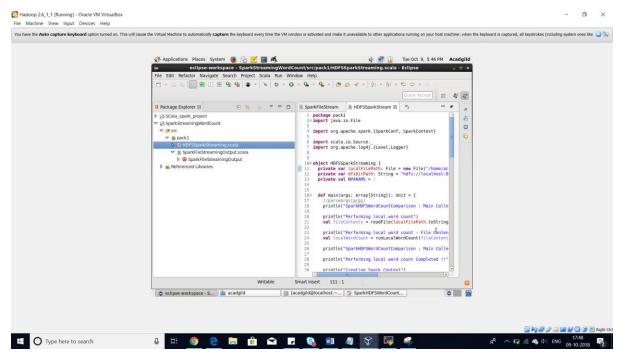
- 1. Pick up a file from the local directory and do the word count
- 2. Then in the same Spark Application, write the code to put the same file on HDFS.
- 3. Then in same Spark Application, do the word count of the file copied on HDFS in step 2
- 4. Lastly, compare the word count of step 1 and 2. Both should match, other throw an error.

Solution:

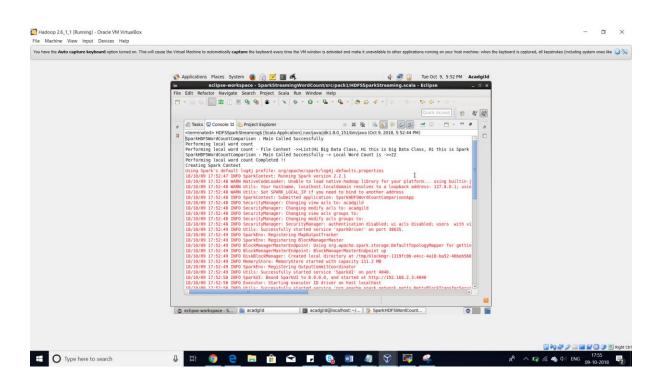
HDFS does not contain streaming directory before the application is run



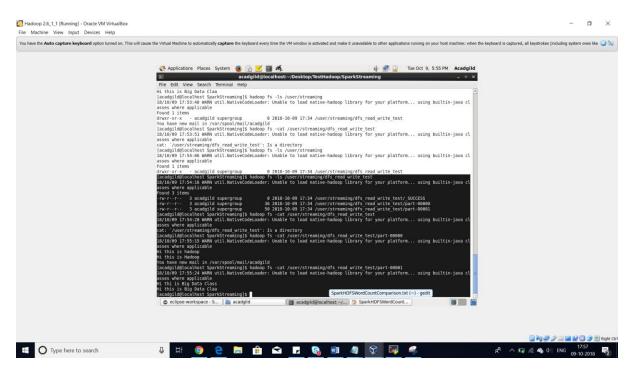




1. Pick up a file from the local directory and do the word count



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, otherwise throw an error.

