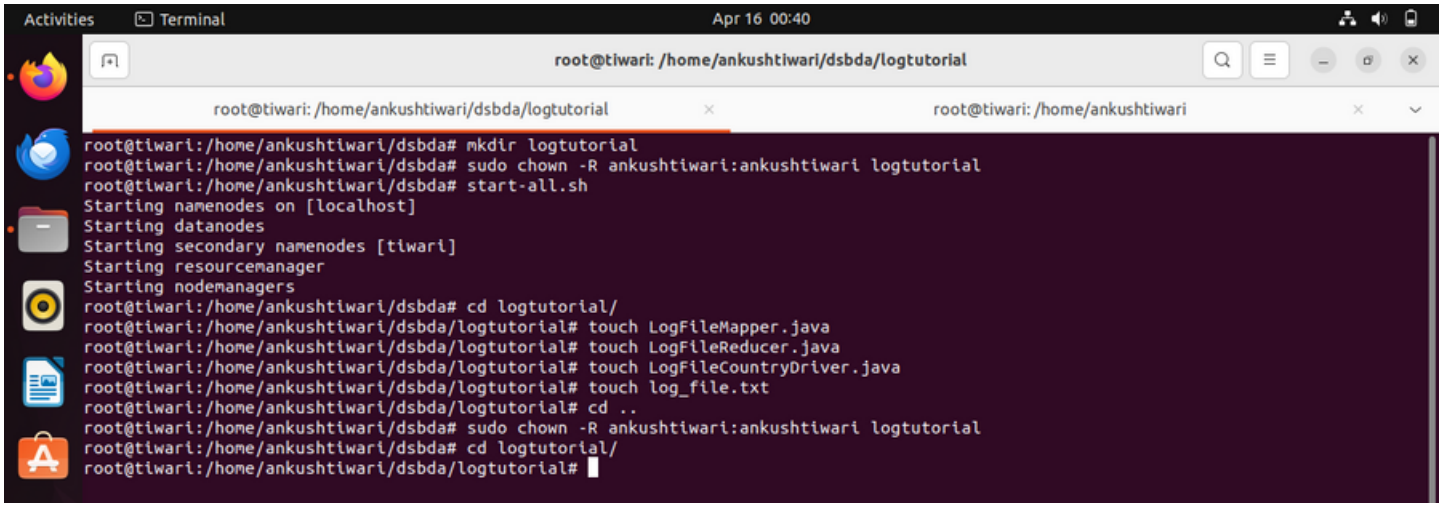
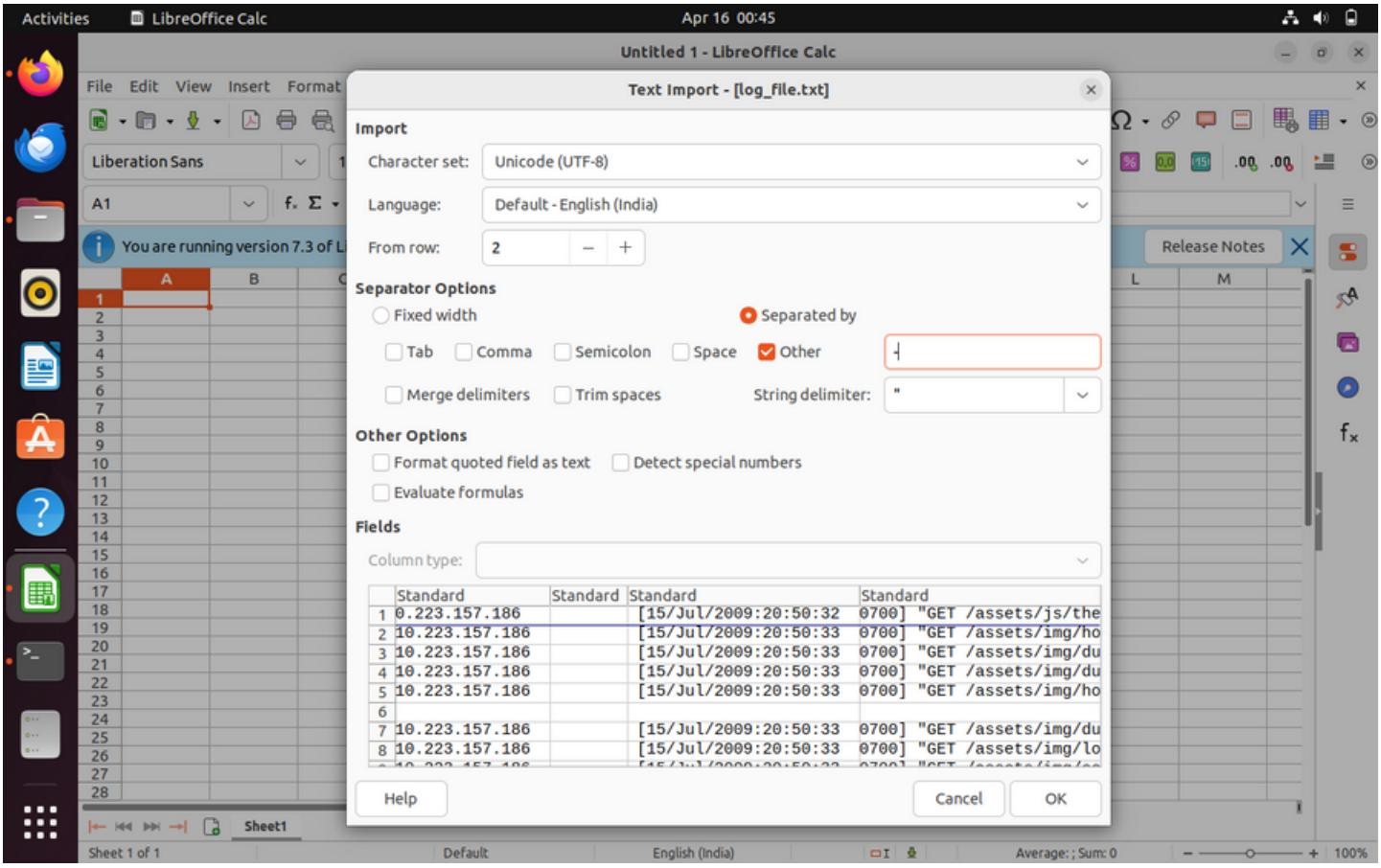
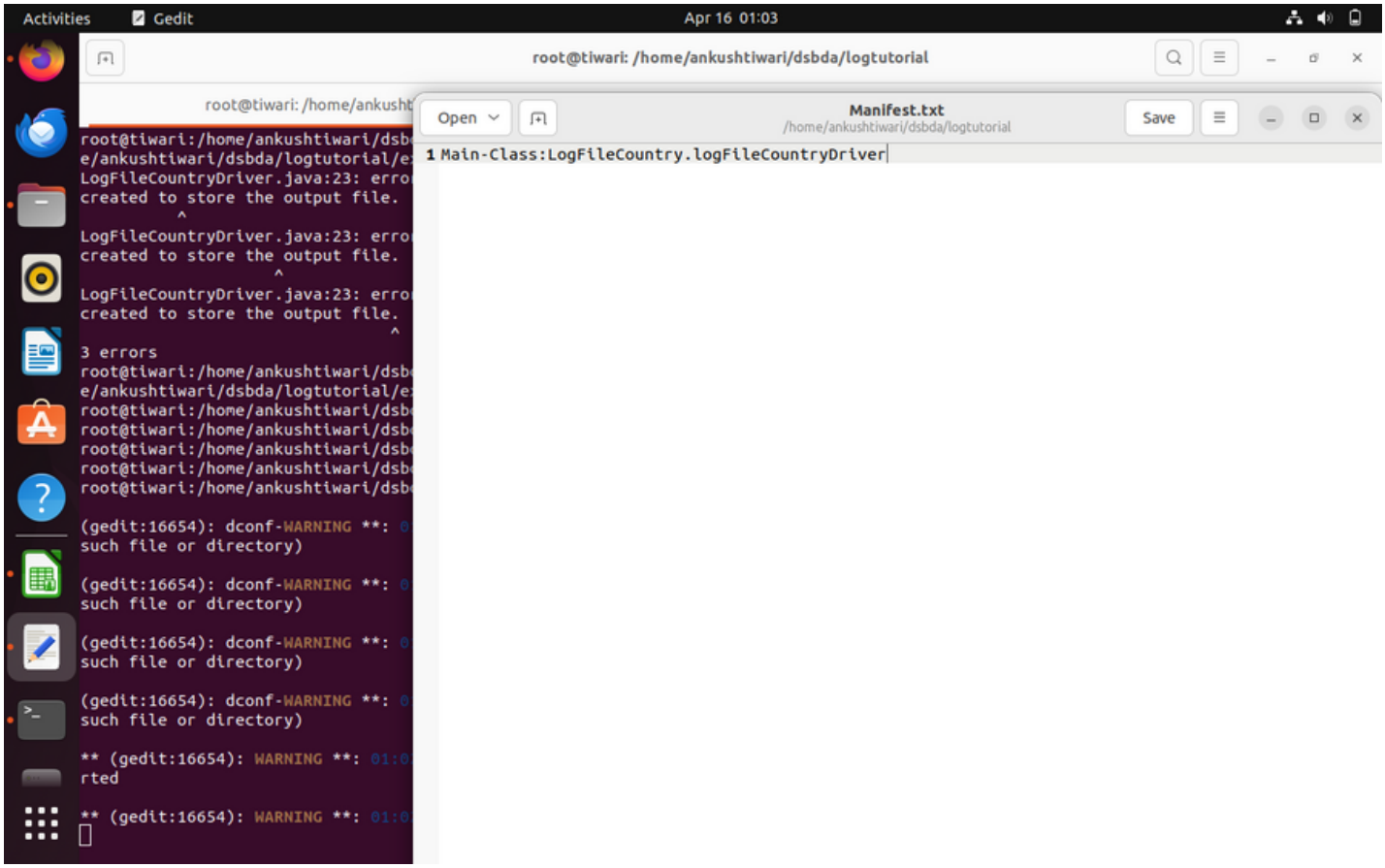
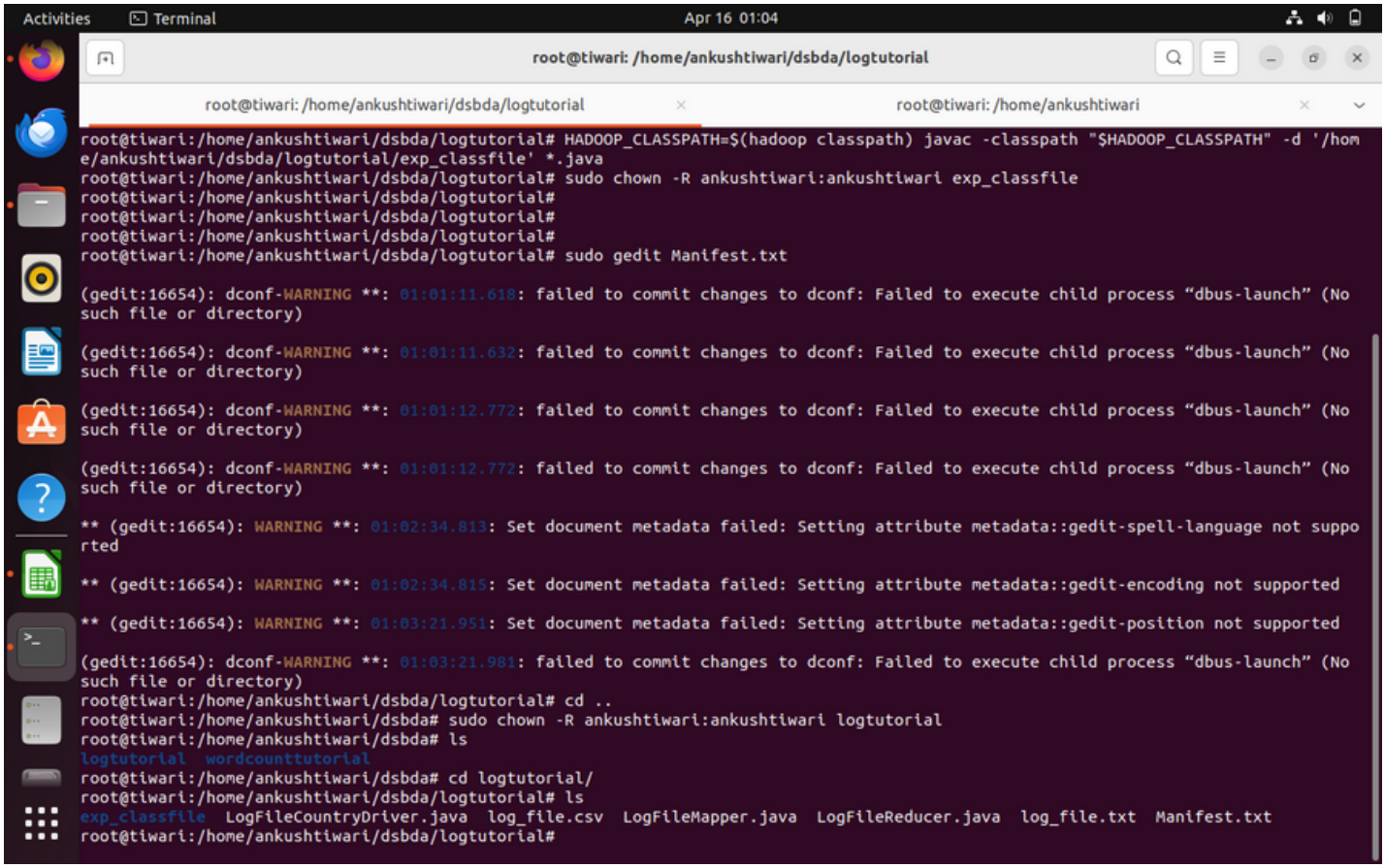
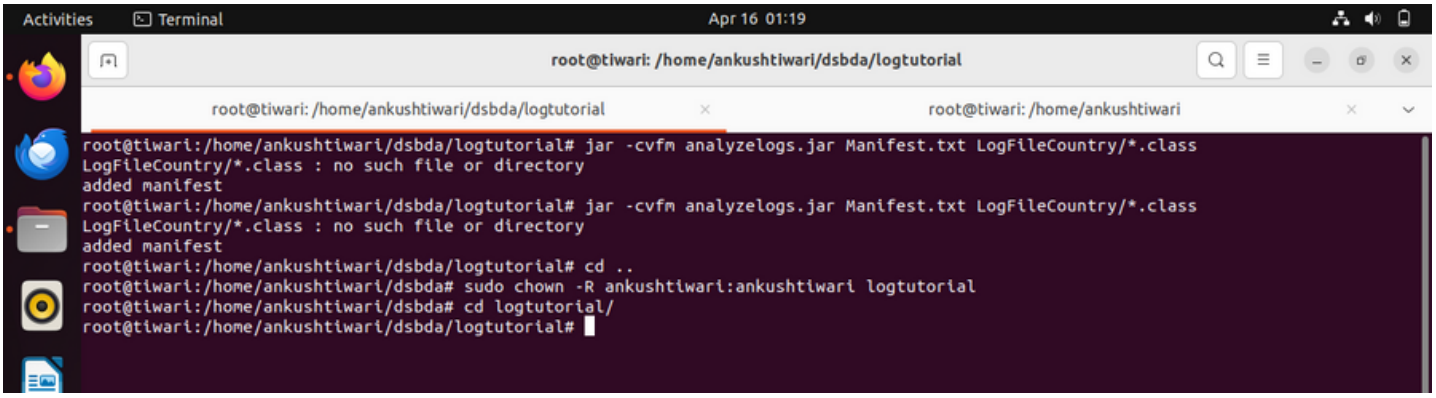
**AIM: Design a distributed application using MapReduce which processes a log file of a system.**

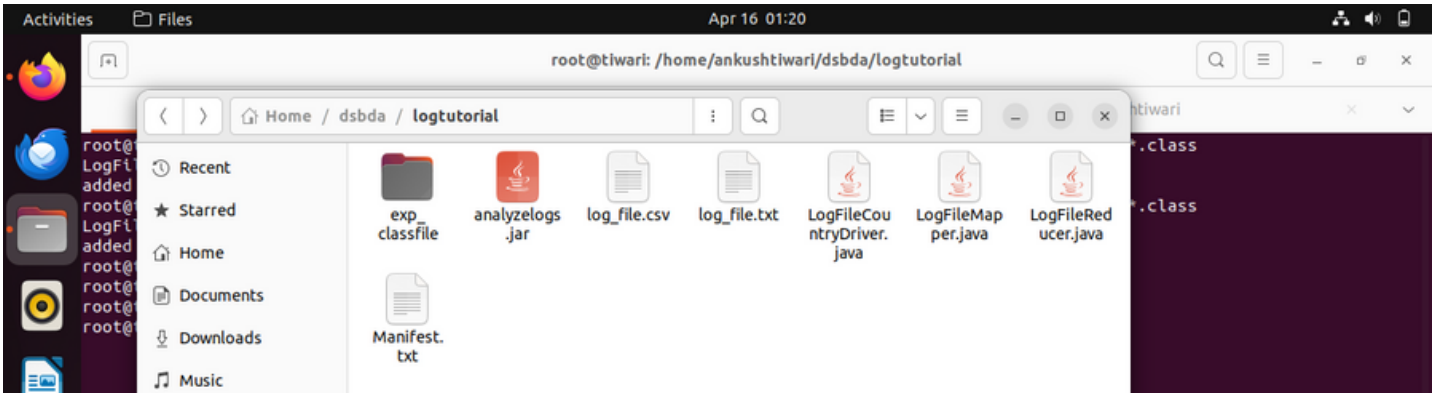


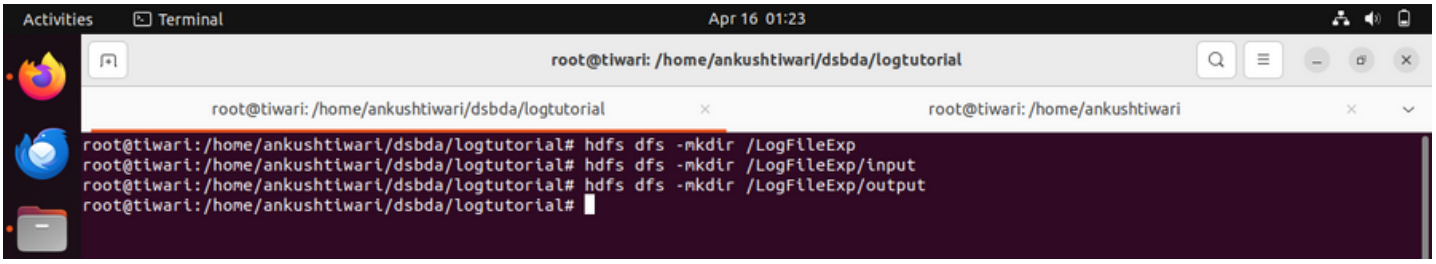



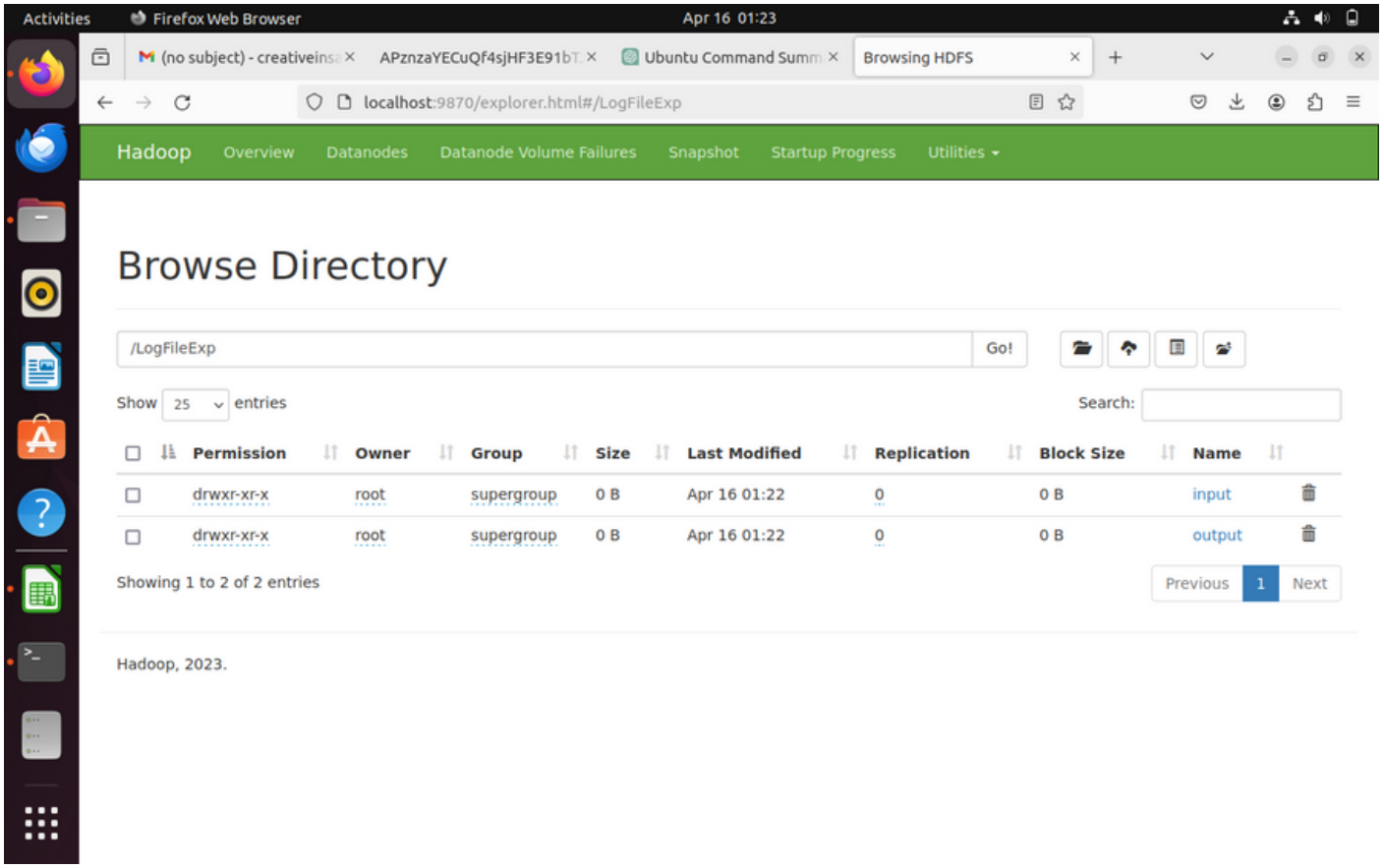

Activities
Gedit
Apr 16 01:03
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
Open
Manifest.txt
/home/ankushtiwari/dsbda/logtutorial
Save
1 Main-Class:LogFileCountry.logFileCountryDriver
LogFileCountryDriver.java:23: error
created to store the output file.
3 errors
(gedit:16654): dconf-WARNING **:
such file or directory)
** (gedit:16654): WARNING **:
rted

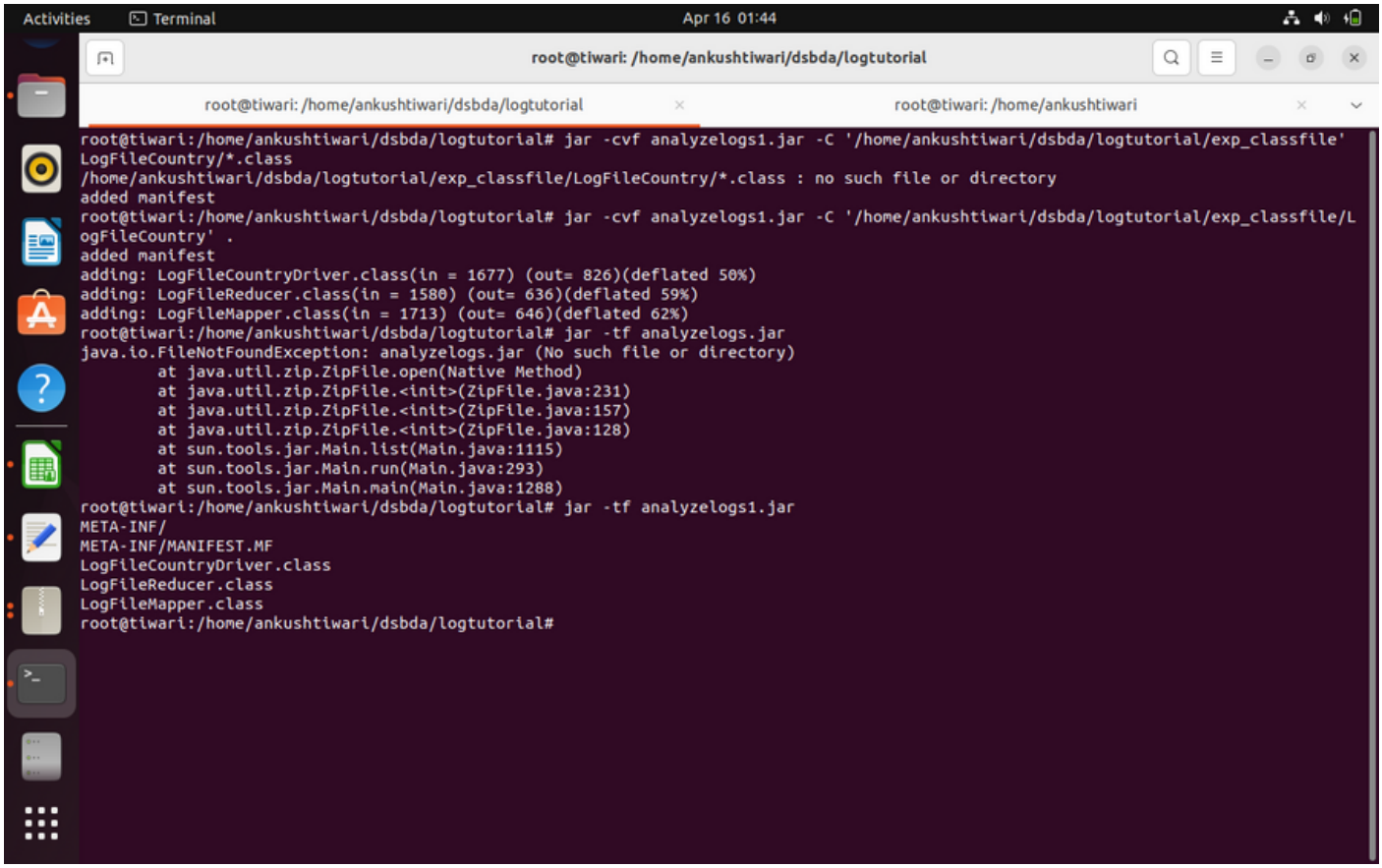

Activities
Terminal
Apr 16 01:04
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# HADOOP_CLASSPATH=$(hadoop classpath) javac -classpath "$HADOOP_CLASSPATH" -d '/hom
e/ankushtiwari/dsbda/logtutorial/exp_classfile' *.java
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# sudo chown -R ankushtiwari:ankushtiwari exp_classfile
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# sudo gedit Manifest.txt
(gedit:16654): dconf-WARNING **: 01:01:11.618: failed to commit changes to dconf: Failed to execute child process “dbus-launch” (No
such file or directory)
(gedit:16654): dconf-WARNING **: 01:01:11.632: failed to commit changes to dconf: Failed to execute child process “dbus-launch” (No
such file or directory)
(gedit:16654): dconf-WARNING **: 01:01:12.772: failed to commit changes to dconf: Failed to execute child process “dbus-launch” (No
such file or directory)
(gedit:16654): dconf-WARNING **: 01:01:12.772: failed to commit changes to dconf: Failed to execute child process “dbus-launch” (No
such file or directory)
** (gedit:16654): WARNING **: 01:02:34.813: Set document metadata failed: Setting attribute metadata::gedit-spell-language not suppo
rted
** (gedit:16654): WARNING **: 01:02:34.815: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:16654): WARNING **: 01:03:21.951: Set document metadata failed: Setting attribute metadata::gedit-position not supported
(gedit:16654): dconf-WARNING **: 01:03:21.981: failed to commit changes to dconf: Failed to execute child process “dbus-launch” (No
such file or directory)
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# cd ..
root@tiwari:/home/ankushtiwari/dsbda# sudo chown -R ankushtiwari:ankushtiwari logtutorial
root@tiwari:/home/ankushtiwari/dsbda# ls
logtutorial  wordcounttutorial
root@tiwari:/home/ankushtiwari/dsbda# cd logtutorial/
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# ls
exp_classfile  LogFileCountryDriver.java  log_file.csv  LogFileMapper.java  LogFileReducer.java  log_file.txt  Manifest.txt
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#


Activities
Terminal
Apr 16 01:19
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -cvfm analyzelogs.jar Manifest.txt LogFileCountry/*.class
LogFileCountry/*.class : no such file or directory
added manifest
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -cvfm analyzelogs.jar Manifest.txt LogFileCountry/*.class
LogFileCountry/*.class : no such file or directory
added manifest
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# cd ..
root@tiwari:/home/ankushtiwari/dsbda# sudo chown -R ankushtiwari:ankushtiwari logtutorial
root@tiwari:/home/ankushtiwari/dsbda# cd logtutorial/
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#


Activities
Files
Apr 16 01:20
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
Home / dsbda / logtutorial
Recent
Starred
Home
Documents
Downloads
Music
exp_classfile
analyzelogs.jar
log_file.csv
log_file.txt
LogFileCountryDriver.java
LogFileMapper.java
LogFileReducer.java
Manifest.txt


Activities
Terminal
Apr 16 01:23
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# hdfs dfs -mkdir /LogFileExp
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# hdfs dfs -mkdir /LogFileExp/input
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# hdfs dfs -mkdir /LogFileExp/output
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#


Activities
Firefox Web Browser
Apr 16 01:23
Browsing HDFS
localhost:9870/explorer.html#/LogFileExp
Hadoop
Overview
Datanodes
Datanode Volume Failures
Snapshot
Startup Progress
Utilities
Browse Directory
/LogFileExp
Go!
Show 25 entries
Search:
Permission
Owner
Group
Size
Last Modified
Replication
Block Size
Name
drwxr-xr-x root supergroup 0 B Apr 16 01:22 0 0 B input
drwxr-xr-x root supergroup 0 B Apr 16 01:22 0 0 B output
Showing 1 to 2 of 2 entries
Previous
1
Next
Hadoop, 2023.


Activities
Terminal
Apr 16 01:44
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari/dsbda/logtutorial
root@tiwari: /home/ankushtiwari
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -cvf analyzelogs1.jar -C '/home/ankushtiwari/dsbda/logtutorial/exp_classfile' LogFileCountry/*.class
/home/ankushtiwari/dsbda/logtutorial/exp_classfile/LogFileCountry/*.class : no such file or directory
added manifest
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -cvf analyzelogs1.jar -C '/home/ankushtiwari/dsbda/logtutorial/exp_classfile/LogFileCountry' .
added manifest
adding: LogFileCountryDriver.class(in = 1677) (out= 826)(deflated 50%)
adding: LogFileReducer.class(in = 1580) (out= 636)(deflated 59%)
adding: LogFileMapper.class(in = 1713) (out= 646)(deflated 62%)
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -tf analyzelogs.jar
java.io.FileNotFoundException: analyzelogs.jar (No such file or directory)
at java.util.zip.ZipFile.open(Native Method)
at java.util.zip.ZipFile.<init>(ZipFile.java:231)
at java.util.zip.ZipFile.<init>(ZipFile.java:157)
at java.util.zip.ZipFile.<init>(ZipFile.java:128)
at sun.tools.jar.Main.list(Main.java:1115)
at sun.tools.jar.Main.run(Main.java:293)
at sun.tools.jar.Main.main(Main.java:1288)
root@tiwari:/home/ankushtiwari/dsbda/logtutorial# jar -tf analyzelogs1.jar
META-INF/
META-INF/MANIFEST.MF
LogFileCountryDriver.class
LogFileReducer.class
LogFileMapper.class
root@tiwari:/home/ankushtiwari/dsbda/logtutorial#

```
Map-Reduce Framework
        Map input records=8
        Map output records=139
        Map output bytes=1355
        Map output materialized bytes=1265
        Input split bytes=120
        Combine input records=139
        Combine output records=102
        Reduce input groups=102
        Reduce shuffle bytes=1265
        Reduce input records=102
        Reduce output records=102
        Spilled Records=204
        Shuffled Maps =1
        Failed Shuffles=0
        Merged Map outputs=1
        GC time elapsed (ms)=244
        CPU time spent (ms)=1950
        Physical memory (bytes) snapshot=536207360
        Virtual memory (bytes) snapshot=5133156352
        Total committed heap usage (bytes)=401080320
        Peak Map Physical memory (bytes)=320638976
        Peak Map Virtual memory (bytes)=2560835584
        Peak Reduce Physical memory (bytes)=215568384
        Peak Reduce Virtual memory (bytes)=2572320768
Shuffle Errors
        BAD_ID=0
        CONNECTION=0
        IO_ERROR=0
        WRONG_LENGTH=0
        WRONG_MAP=0
        WRONG_REDUCE=0
File Input Format Counters
        Bytes Read=799
File Output Format Counters
        Bytes Written=851
```