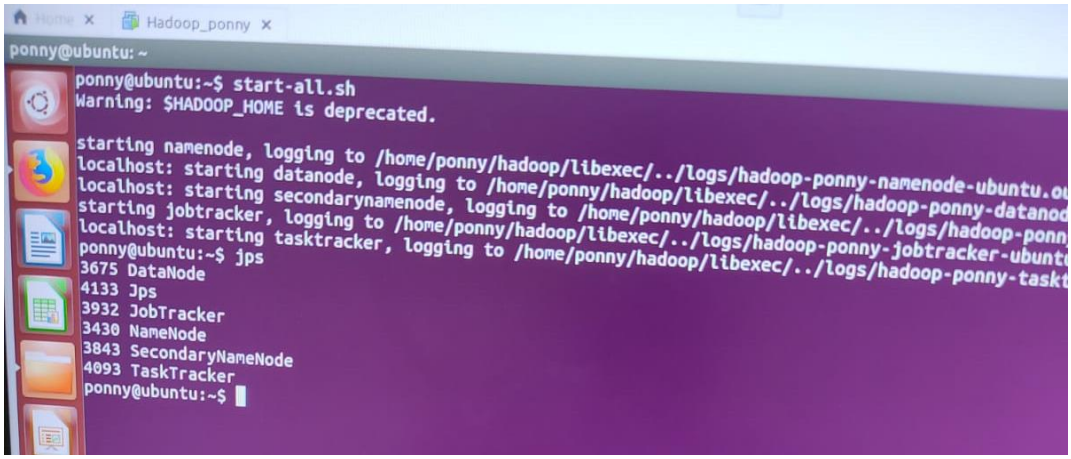
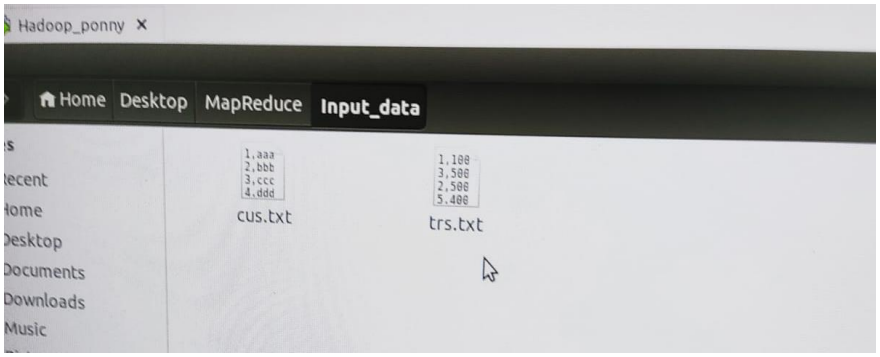
Exp – Mapside Join program execution steps.

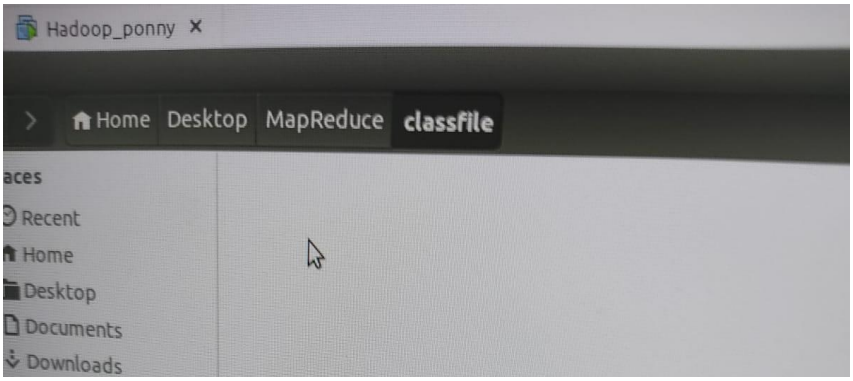
1. Download the text and program files, and place in a separate folder in desktop
2. Open the terminal and run basic commands to start the Hadoop services and check its version. Refer the screenshots below.



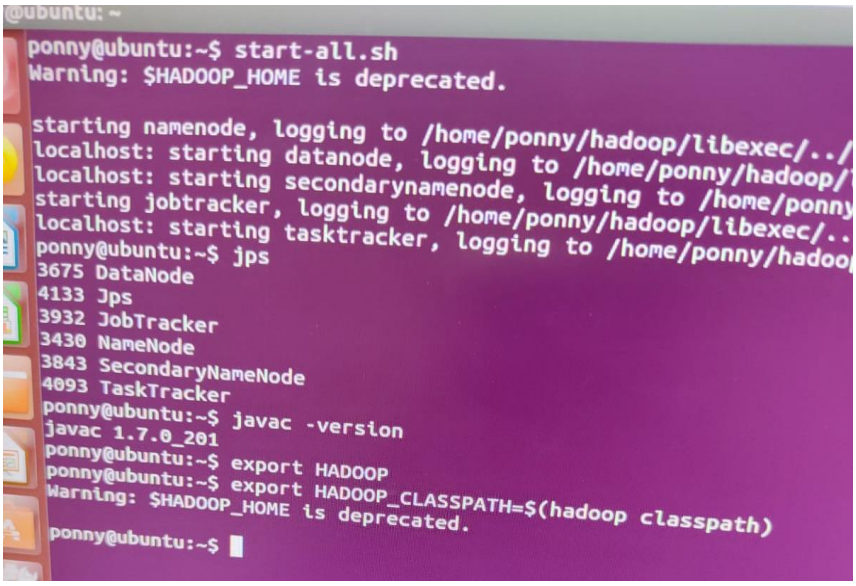
3. In the desktop, create a folder, For ex: here the folder name is given as **MapReduce**. Inside this folder create an **Input_data** folder and place the input text files (cus.txt and trs.txt)
4. Inside the **MapReduce** folder create an empty folder name **classfile.**

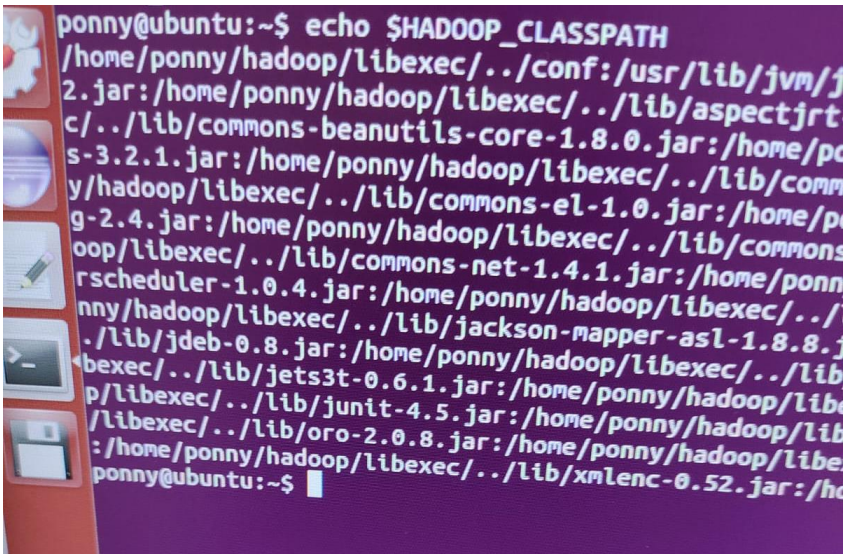
   Refer this sample below screenshots.

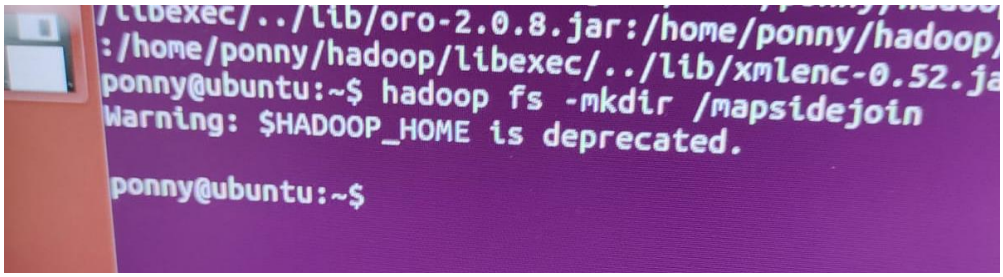


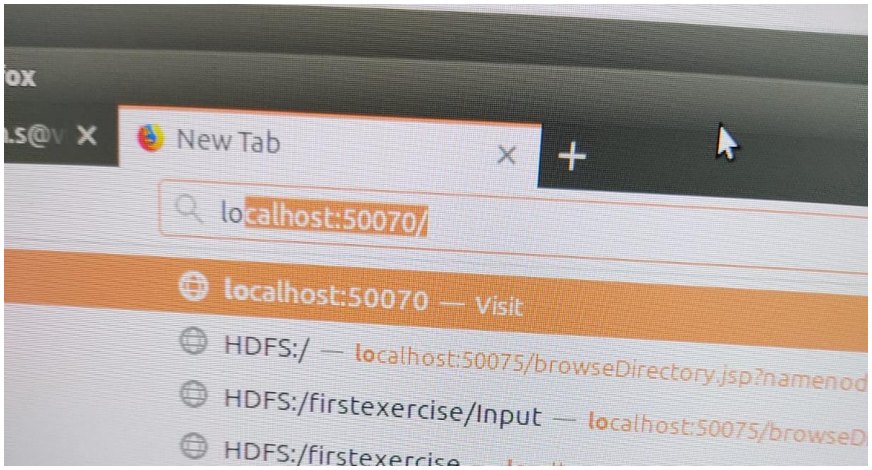


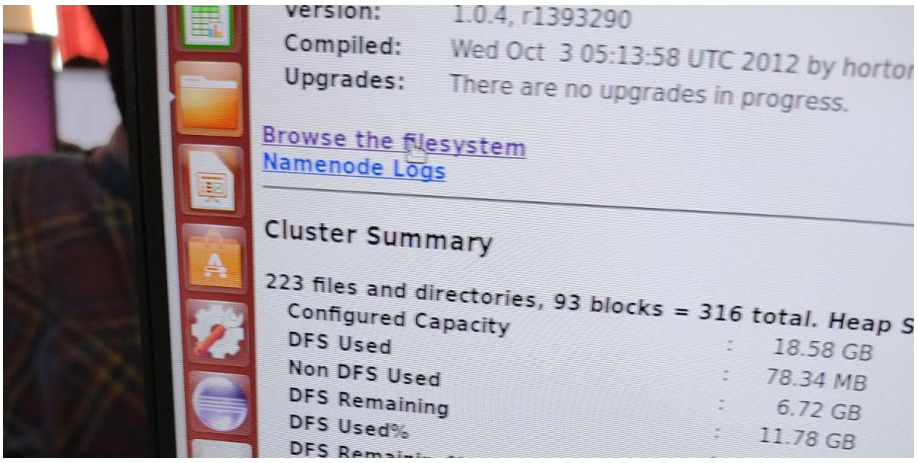
5. After this follow the commands in the below screenshot and enter in the terminal

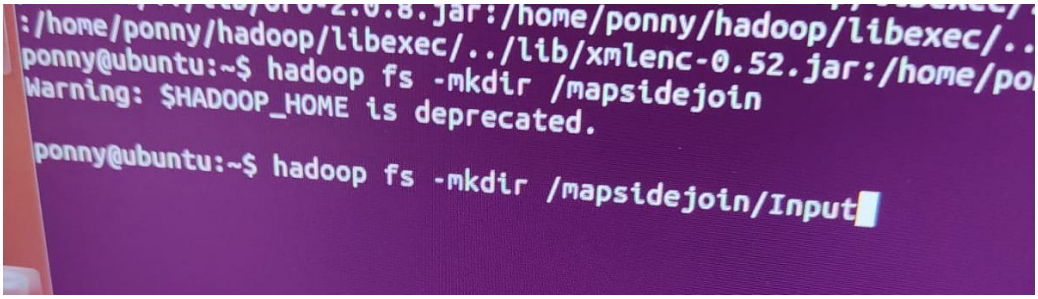







New Tab
localhost:50070/
localhost:50070 — Visit
HDFS:/ — localhost:50075/browseDirectory.jsp?namenod
HDFS:/firstexercise/Input — localhost:50075/browseD


Version: 1.0.4, r1393290
Compiled: Wed Oct 3 05:13:58 UTC 2012 by horto
Upgrades: There are no upgrades in progress.
Browse the filesystem
Namenode Logs
Cluster Summary
223 files and directories, 93 blocks = 316 total. Heap S
Configured Capacity
DFS Used : 18.58 GB
Non DFS Used : 78.34 MB
DFS Remaining : 6.72 GB
DFS Used% : 11.78 GB


:/home/ponny/hadoop/libexec/../lib/xmlenc-0.52.jar:/home/ponny/hadoop/libexec/..
ponny@ubuntu:~$ hadoop fs -mkdir /mapsidejoin
Warning: $HADOOP_HOME is deprecated.
ponny@ubuntu:~$ hadoop fs -mkdir /mapsidejoin/Input

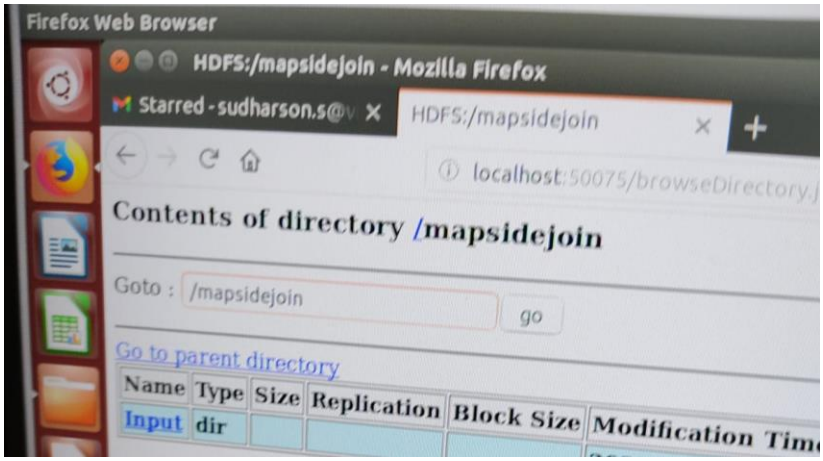
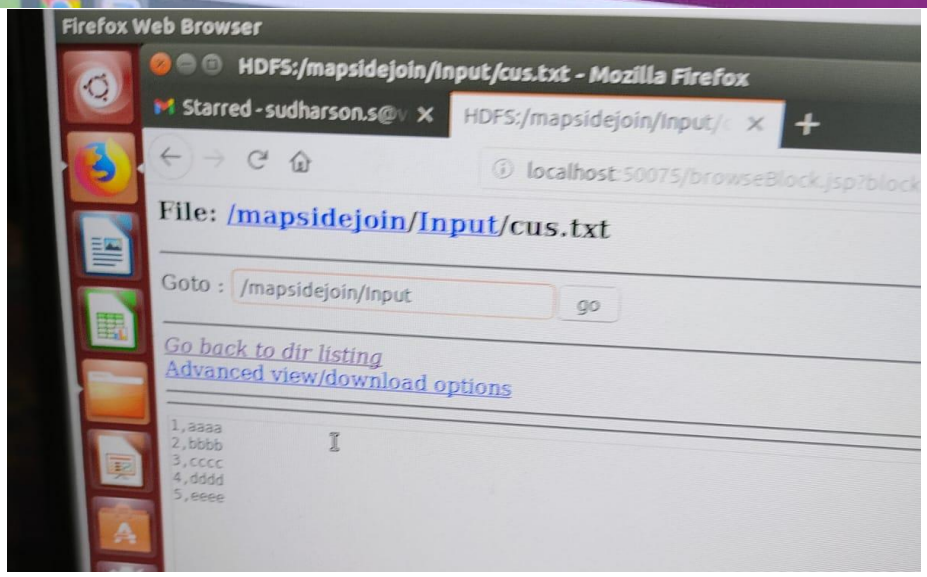
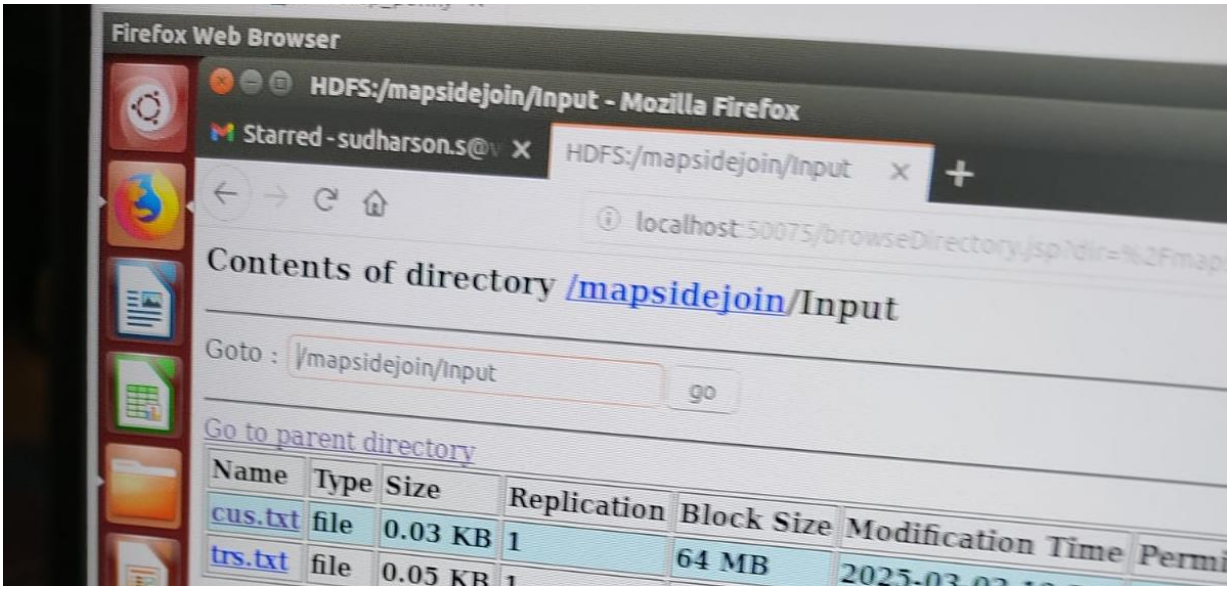

Firefox Web Browser
HDFS:/mapsidejoin - Mozilla Firefox
Starred - sudharson.s@v
HDFS:/mapsidejoin
localhost:50075/browseDirectory.j
Contents of directory /mapsidejoin
Goto : /mapsidejoin
go
Go to parent directory
Name Type Size Replication Block Size Modification Tim
Input dir

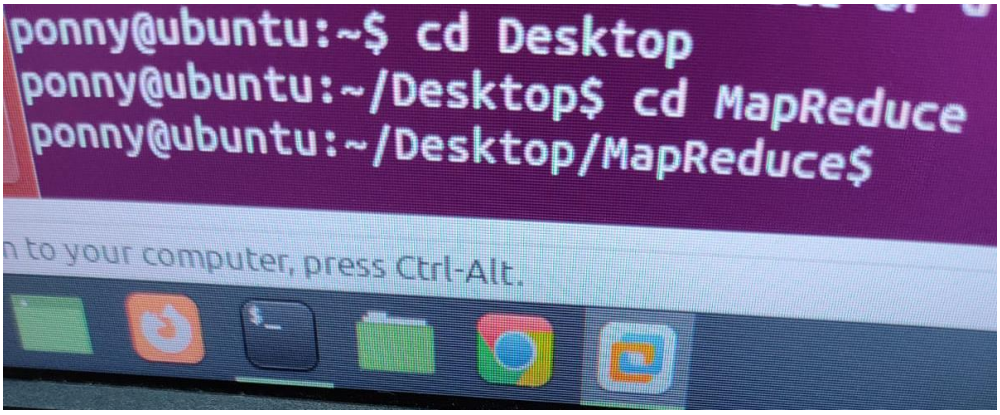
Fig 10

```
ponny@ubuntu:~$ hadoop fs -put '/home/ponny/Desktop/MapReduce/Input_data/cus.txt' /mapsidejoin/Input
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$
```

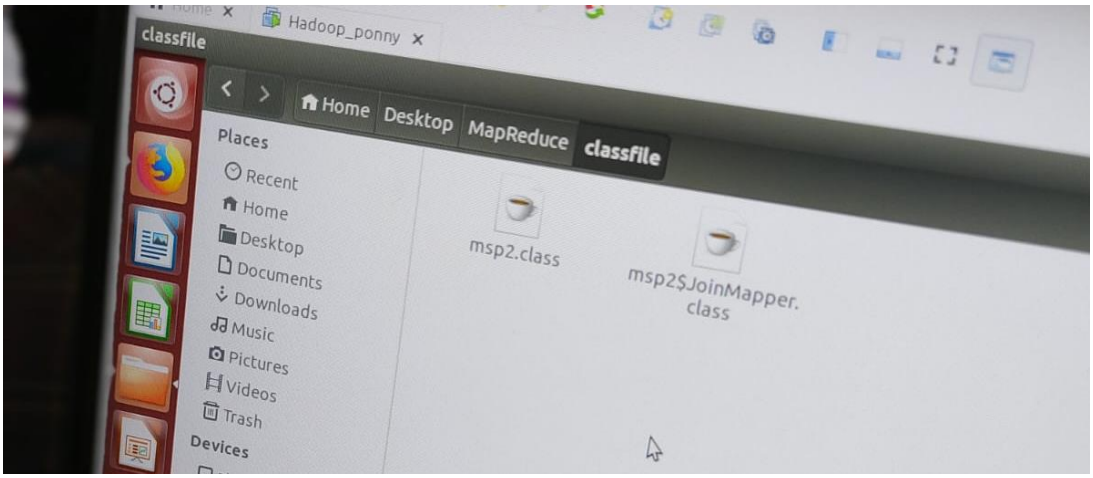



```
ponny@ubuntu:~$ hadoop fs -put '/home/ponny/Desktop/MapReduce/Input_data/cus.txt' /mapsidejoin/Input
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$ hadoop fs -put '/home/ponny/Desktop/MapReduce/Input_data/trs.txt' /mapsidejoin/Input
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$
```

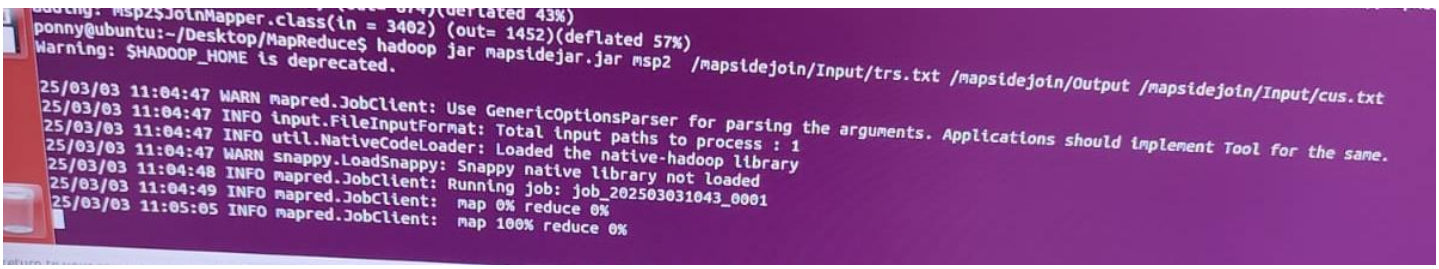


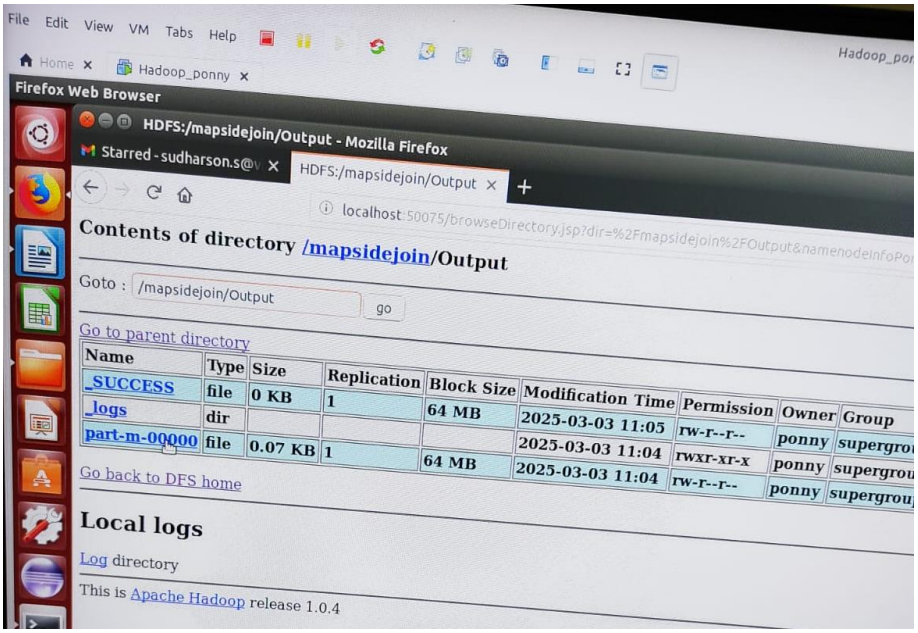

ponny@ubuntu:~$ cd Desktop
ponny@ubuntu:~/Desktop$ cd MapReduce
ponny@ubuntu:~/Desktop/MapReduce$
to your computer, press Ctrl-Alt.

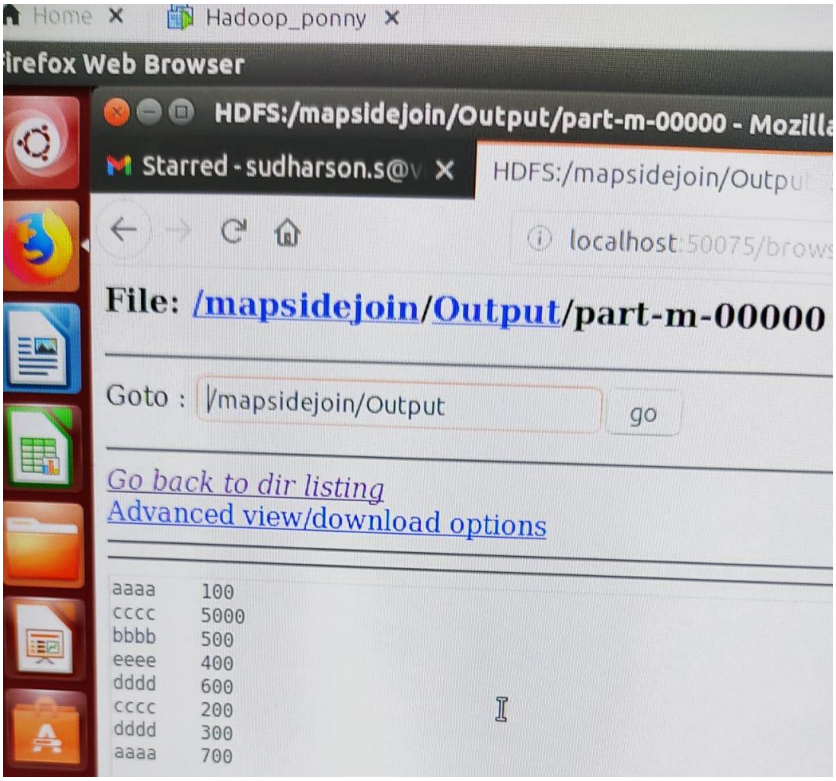
/Desktop$ cd MapReduce
/Desktop/MapReduce$ javac -classpath ${HADOOP_CLASSPATH} -d '/home/ponny/Desktop/MapReduce/classfile' '/home/ponny/Desktop/MapReduce/msp2.java'
/Desktop/MapReduce$
To return to your computer, press Ctrl-Alt.
ThinkVision


classfile
Hadoop_ponny
Home
Desktop
MapReduce
classfile
Places
Recent
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
Devices
msp2.class
msp2$JoinMapper.class

ponny@ubuntu:~/Desktop$ cd MapReduce
ponny@ubuntu:~/Desktop/MapReduce$ javac -classpath ${HADOOP_CLASSPATH} -d '/home/ponny/Desktop/MapReduce/classfile' '/home/ponny/Desktop/MapReduce/msp2.java'
ponny@ubuntu:~/Desktop/MapReduce$ jar -cvf mapsidejar.jar -C classfile/ .
added manifest
adding: msp2.class(in = 1560) (out= 874)(deflated 43%)
adding: msp2$JoinMapper.class(in = 3402) (out= 1452)(deflated 57%)
ponny@ubuntu:~/Desktop/MapReduce$
VM's version of VMware Tools is out of date.


ponny@ubuntu:~/Desktop/MapReduce$ hadoop jar mapsidejar.jar msp2 /mapsidejoin/Input/trs.txt /mapsidejoin/Output /mapsidejoin/Input/cus.txt
Warning: $HADOOP_HOME is deprecated.
25/03/03 11:04:47 WARN mapred.JobClient: Use GenericOptionsParser for parsing the arguments. Applications should implement Tool for the same.
25/03/03 11:04:47 INFO input.FileInputFormat: Total input paths to process : 1
25/03/03 11:04:47 INFO util.NativeCodeLoader: Loaded the native-hadoop library
25/03/03 11:04:47 WARN snappy.LoadSnappy: Snappy native library not loaded
25/03/03 11:04:48 INFO mapred.JobClient: Running job: job_202503031043_0001
25/03/03 11:04:49 INFO mapred.JobClient: map 0% reduce 0%
25/03/03 11:05:05 INFO mapred.JobClient: map 100% reduce 0%


File Edit View VM Tabs Help
Home
Hadoop_ponny
Firefox Web Browser
HDFS:/mapsidejoin/Output - Mozilla Firefox
Starred - sudharson.s@v
HDFS:/mapsidejoin/Output
localhost:50075/browseDirectory.jsp?dir=%2Fmapsidejoin%2FOutput&namenodeinfoPo
Contents of directory /mapsidejoin/Output
Goto : /mapsidejoin/Output go
Go to parent directory
Name Type Size Replication Block Size Modification Time Permission Owner Group
_SUCCESS file 0 KB 1 64 MB 2025-03-03 11:05 rw-r--r-- ponny supergro
_logs dir
part-m-00000 file 0.07 KB 1 64 MB 2025-03-03 11:04 rwxr-xr-x ponny supergro
2025-03-03 11:04 rw-r--r-- ponny supergrou
Go back to DFS home
Local logs
Log directory
This is Apache Hadoop release 1.0.4


Home
Hadoop_ponny
Firefox Web Browser
HDFS:/mapsidejoin/Output/part-m-00000 - Mozilla
Starred - sudharson.s@v
HDFS:/mapsidejoin/Output
localhost:50075/brows
File: /mapsidejoin/Output/part-m-00000
Goto : /mapsidejoin/Output go
Go back to dir listing
Advanced view/download options
aaaa 100
cccc 5000
bbbb 500
eeee 400
dddd 600
cccc 200
dddd 300
aaaa 700