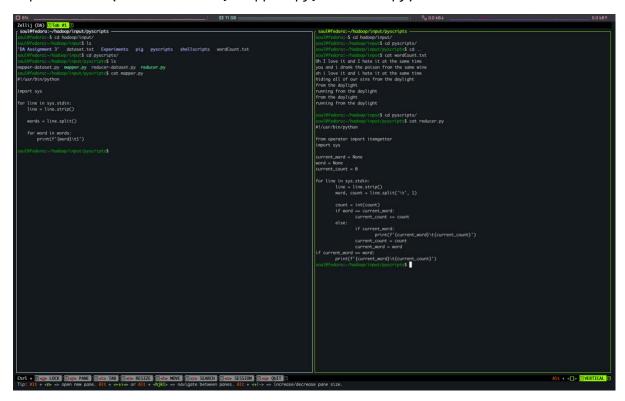
## EXP NO: 2

## Run A Basic Word Count Map Reduce Program To Understand Map Reduce Paradigm

Input Files (wordCount.txt, mapper.py, reducer.py) :



\$chmod 777 mapper.py reducer.py
\$hadoop jar \$HADOOP\_STREAMING -input /exp2/word\_count.txt -output
/exp2/output -mapper ~/DA-Lab/exp2/mapper.py -reducer ~/DA-

/exp2/output -mapper ~/DA-Lab/exp2/mapper.py -reducer ~/DA-Lab/exp2/reducer.py

```
S hadoop jar $HADOOP_STREAMING -input /expl/word_count.txt -output /expl/new_output -mapper -/DA-Lab/mapper.py -reducer -/DA-Lab/reducer.py
2024-08-28 03:19:55,058 WARN util.NativeCodeloader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [/tmp/hadoop-unjars-b60646781857695820/] [] //tmp/streamjobS1399617557577677411.jar rmpOir-null
2024-08-28 03:19:58,598 INFO client.DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at /0.0.0.0:8032
2024-08-28 03:20:02,347 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hadoop/.staging/job_1724827394647_0002
2024-08-28 03:20:02,347 INFO mapreduce.JobSubmitter: Iotal input files to process: 1
2024-08-28 03:20:04,382 INFO mapreduce.JobSubmitter: submitting tokens for job: job_1724827394647_0002
2024-08-28 03:20:06,083 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1724827394647_0002
2024-08-28 03:20:06,084 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-08-28 03:20:09,979 INFO onf-(configuration: resource-types.xml not found
2024-08-28 03:20:09,971 INFO impl.YarnClientImpl: Submitted application_1724827394647_0002
2024-08-28 03:20:09,971 INFO mapreduce.Job: The url to track the job: http://kalis088/proxy/application_1724827394647_0002/
2024-08-28 03:20:10,115 INFO mapreduce.Job: Running job: job_1724827394647_0002
2024-08-28 03:20:10,115 INFO mapreduce.Job: map 0% reduce 0%
2024-08-28 03:21:27,334 INFO mapreduce.Job: map 100% reduce 0%
2024-08-28 03:21:27,334 INFO mapreduce.Job: map 100% reduce 100%
```

## \$hdfs dfs -cat /exp2/output/\*

```
-$ ./hdfs dfs -cat /exp2/output/*
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-21 00:07:24,178 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform...
Hadoop 1
This 1
a 1
count 1
executed 1
in 1
is 1
program 1
word 1
```

## Result:

Thus a basic Word Count program is run using map-reduce.