ROLL NUMBER: 210701129

EXP NO: 2 RUN A BASIC WORD COUNT MAP REDUCE PROGRAM TO UNDERSTAND MAP REDUCE PARADIGM

Smkdir DA-Lab Scd DA-Lab Smkdir exp2 Scd exp2

\$nano word_count.txt



\$nano mapper.py

```
File Actions Edit View Help

GNU nano 7.2

If //osr/ bin/env python3

# import sys because we need to read and write data to STOIN and STOOUT

import sys

for line = line.strip() # remove leading and traiting whitespace

words = line.split() # split the line into words

for word in words:

print( '%s\t%s' % (word, 1))
```

\$nano reducer.py

ROLL NUMBER: 210701129

\$start-all.sh

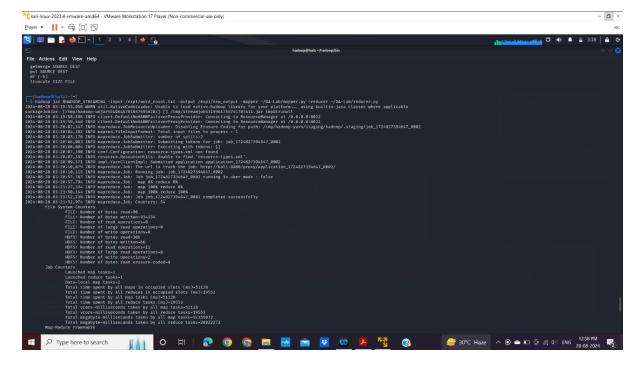
\$ jps

\$hdfs dfs -mkdir /exp2

\$hdfs dfs -copyFromLocal ~/DA-Lab/exp2/word_count.txt /exp2

\$chmod 777 mapper.py reducer.py

\$\text{shadoop jar \$HADOOP_STREAMING -input /exp2/word_count.txt -output /exp2/output - mapper \times/DA-Lab/exp2/mapper.py -reducer \times/DA-Lab/exp2/reducer.py



ROLL NUMBER: 210701129

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

```
(hadoop® kali)-[~/hadoop/bin]
$ ./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
```