ROLL NUMBER: 210701078

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

\$nano reducer.py

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\$start-all.sh

```
File Actions Edit View Help

(hadoop@kali)-[~]
$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [kali]
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-11 04:59:16,429 WARNI util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Starting resourcemanager
Starting nodemanagers
```

\$ jps

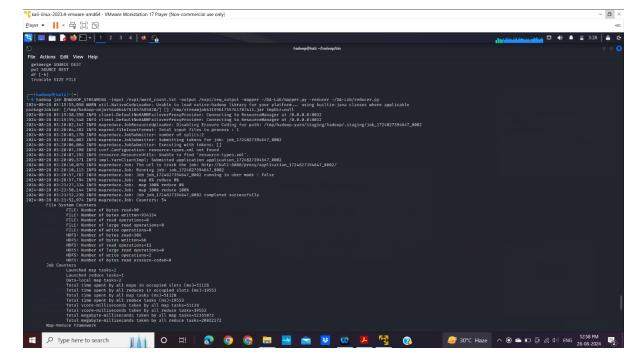
\$hdfs dfs -mkdir /exp2

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

```
(hadoop% kali)-[~/hadoop/bin]
$\_\$\/hdfs\ dfs\ -1s\ /exp2
Picked up_ JAVA_OPTIONS: -Dawt.useSystemAAFontSettings-on -Dswing.aatext*true
2024-09-21 00:05:07,404 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
drwxr-xr-x - hadoop supergroup 0 2024-09-13 01:05 /exp2/output
-rw-r-r-- 1 hadoop supergroup 80 2024-09-13 01:02 /exp2/word_count.txt
```

\$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



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\$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
```