ROLL NUMBER: 210701074

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

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File Actions Edit View Help

GMU nano 7.2

SALISATION OF THE PROPERTY OF THE ACTION OF
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\$nano reducer.py

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File Actions Edit View Help

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From operator import itemsetter

import sys

current_word = new

current_count = 0

word = line = Stine.

try:

count = int(count)

except ValueError:

cuntinue

if current_word = word:

current_count + count

print('%s\rms' % (current_word, current_count))

current_word = word:

print('%s\rms' % (current_count))
```

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\$start-all.sh

\$ jps

```
| Sec | Sec
```

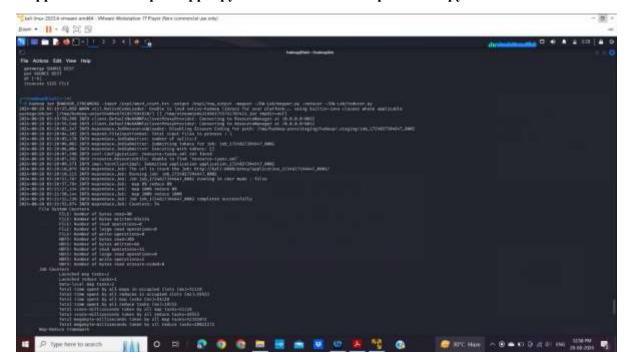
\$hdfs dfs -mkdir /exp2

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

```
**Total of and a state of a state
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\$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
```