**ROLL NUMBER: 210701069** 

# 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

GRU mano 7.2

***Constitution of the second of the second
```

## \$nano reducer.py

```
File Actions Edit View Help

GRU mano 7.2

From operator import itemgetter

import sys
current_word = num
current_count = 0

word : num
if current_word = word:

for Line = line.strip()

word, count = int(count)

except ValueFror:

current_word = word:

current_word = word:

for current_word = word:

current_word = word:

for current_word = word:

for current_word = word:

print('%a\t%s' x (current_word, current_count))

for current_word = word:

for current_word = word:

print('%a\t%s' x (current_word, current_count))
```

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#### \$start-all.sh

# \$ jps

```
| Sec | Sec
```

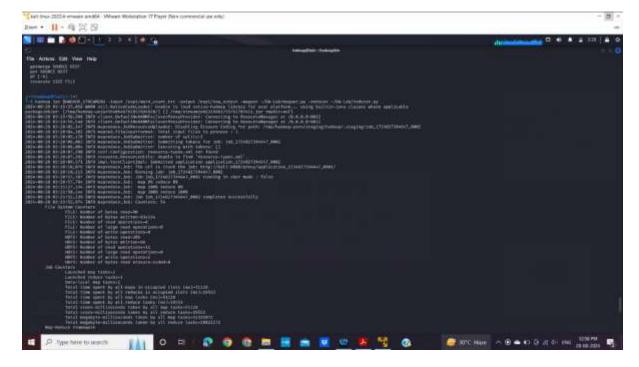
## \$hdfs dfs -mkdir /exp2

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

```
| Carry | Carr
```

## \$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
```