**ROLL NUMBER: 210701089** 

### EXP NO: 3 MAP REDUCE PROGRAM TO PROCESS A WEATHER DATASET

\$cd DA-Lab \$mkdir exp3 \$cd exp3

\$nano dataset.txt

```
File Action 68 Vew Help

| Company |
```

## \$nano mapper.py

### \$nano reducer.py

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#### \$start-all.sh

```
hadoop@kali--

File Actions Edit View Help

(hadoop@kali)-[~]

$ start-all.sh

WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.

WARNING: Inis 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 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable Starting nodemanager

Starting nodemanagers
```

# \$ jps

```
[hadoop⊗kali)-[~]
$ jps
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
14436 NodeManager
16772 Jps
13830 SecondaryNameNode
14311 ResourceManager
13597 DataNode
13471 NameNode
```

### \$hdfs dfs -mkdir /exp3

\$hdfs dfs -copyFromLocal ~/DA-Lab/exp3/dataset.txt /exp2

```
(hadoop⊕ kali)-[~/hadoop/bin]

$ ./hdfs dfs -ls /exp3

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true

2024-09-21 00:11:13,818 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform ...

Found 3 items

-rw-r-r-- 1 hadoop supergroup 79205 2024-08-29 10:50 /exp3/dataset.txt

drwxr-xr-x - hadoop supergroup 0 2024-08-29 10:52 /exp3/new_output

drwxr-xr-x - hadoop supergroup 0 2024-09-13 01:00 /exp3/output
```

### \$chmod 777 mapper.py reducer.py

\$hadoop jar \$HADOOP\_STREAMING -input /exp3/dataset.txt -output /exp3/output -mapper ~/DA-Lab/exp3/mapper.py -reducer ~/DA-Lab/exp3/reducer.py

```
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- hadoon jst shadoon, StackHild -input /expl/dataset.txt -output (expl/output -mapper -/Da-Lab/expl/mapper.py -reducer -/DA-Lab/expl/reducer.py

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# \$hdfs dfs -cat /exp3/output/\*