**ROLL NUMBER: 210701101** 

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

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

\$nano dataset.txt

```
File Actions Est: Vew Help

Fi
```

# \$nano mapper.py

# \$nano reducer.py

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#### **\$start-all.sh**

```
File Actions Edit View Help
(nadoop® 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 CTRI-C to abort.

Starting namenodes on [localnost]

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 resourcemanager

Starting nodemanagers
```

# \$ jps

```
Thatoope Ratio (1974)

$\frac{1}{5}$ jps

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
14436 NodeManager
16772 Jps
13830 SecondaryNameNode
14311 ResourceManager
13597 DatAMode
13471 NameNode
```

## \$hdfs dfs -mkdir /exp3

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

```
-(hadoop®kali)-[~/hadoop/bin]
./hdfs dfs -ls /exp3

$\frac{1}{2}\tag{\text{price}} \text{price} \tex
-rw-r-r-- 1 hadoop supergroup 79205 2024-08-29 10:50 /exp3/dataset.tx:
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
                                                                                                                                                                                                                                                                                                                               79205 2024-08-29 10:50 /exp3/dataset.txt
```

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

\$\text{shadoop 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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