ROLL NUMBER: 210701110

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

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

\$nano dataset.txt

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The Actions Ent Vew Help

| Control | Control
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\$nano mapper.py

```
File Actions Edit View Help

GNU nano 7.2

It/usr/bin/python8

import sys
for line = line.strip() # split the line into words
    words = line.split()

month = line[10:12]

daily_max = line[38:45]
daily_max = daily_max.strip()
for word in words:
    print ('%s\t%s' % (month ,daily_max))
```

\$nano reducer.py

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\$start-all.sh

\$ 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

\$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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