**ROLL NUMBER: 210701069** 

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

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

\$nano dataset.txt

```
The Action like two length

| Company | Compan
```

# \$nano mapper.py

```
File Actions Edit View Help

GNU name 7.2

Import sys

for line + line.strip() a mixture with the line with the words - line.strip() a mixture with the line words - line[10:12]

daily_max = line[30:45]

daily_max = daily_max.strip()

for word in words:

print ("ss\ts" % (sonth daily_max))
```

# \$nano reducer.py

```
File Actions Edit View Help

GMJ nano 7.2

Treducer.py

Trom operator import itemsetter

Import sys

current_month = none

current_max = 0

month = line.strip()
month = month:
    if current_month = month:
    if daily_max = float(daily_max)

    if current_month = month:
        if current_month = daily_max

elne:

if current_month = month:
    current_month = month:
    if current_month = month:
    if current_month = month:
    if current_month = month:
    if current_month = month:
    print ('%a)t%a' % (current_max))

current_month = month:
    print ('%a)t%a' % (current_max))
```

**ROLL NUMBER: 210701069** 

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

```
File Actions Edit View Help

| Change Mailin(=) | Start-all.sh | WARRING: Attempting in start all Apache Hadaop diamount as hadaop in 10 seconds.
| WARRING: Attempting in start all Apache Hadaop diamount as hadaop in 10 seconds.
| WARRING: Stiming in the critic (start) | Continued or obsertance of production deployment configuration, | WARRING: Starting antercodes on [Isochhost] | Starting Sattemptes | Starting secondary namenodes | Kali] |
| Picked up _ JAVA_OPTION3: -Dawt.usoSystemAAFontSattings-on -Dawing.aatoxt-true | 20VA-69-11 | Bail 99:10,479 WARR util.WattveCodeLouder: Unable to loud native-hadoop library for your platform... using builtin-java classes where applicable Starting modemanagers
```

# \$ jps

```
Type
Picked on JAVA_OFTIONS: -Bawt-useSystemAAFontSettings-on -Dswing.astext-froe
14436 NodeNanoger
14772 Jun
13838 SecondaryNumeMode
14311 NecourceManager
13597 Tatalanda
13471 NameMode
```

## \$hdfs dfs -mkdir /exp3

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

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

 $\label{lem:continuity} $$ \adoop jar $HADOOP\_STREAMING -input/exp3/dataset.txt -output/exp3/output -mapper $$ \sim DA-Lab/exp3/mapper.py -reducer $$ \sim DA-Lab/exp3/reducer.py $$$ 

ROLL NUMBER: 210701069