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EXPNO: 3 MAP REDUCE PROGRAM TO PROCESS A WEATHER DATASET

\$nano dataset.txt

\$nano mapper.py

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\$nano reducer.py

```
Oct 20 10:44 PM
 \pm
                                                                                                                                                hadoop@fedora:~/hadoop/experiments
 GNU nano 7.2
                                                                                                                                                                   reducer.py
 rom operator import itemgetter
current_max = 0
month = None
for line in sys.stdin:
     line = line.strip()
    try:

daily_max = float(daily_max)

except ValueError:

# daily_max was not a number, so silently

# ignore/discard this line
                                               it is passed to the reducer
     if current_month == month:
    if daily_max > current_max:
    current_max = daily_max
else:
    if current_month:
               print ('%s\t%s' % (current_month, current_max))
          current_max = daily_max
current_month = month
 f current_month == month:

print ('%s\t%s' % (current_month, current_max))
```

\$chmod 777 mapper.py reducer.py \$hadoop jar \$HADOOP_STREAMING -input /dataset.txt -output /output -mapper mapper.py -reducer reducer.py

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```

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\$hdfs dfs -cat /out/*

```
hadoop@fedora:~/hadoop/experiments$ hdfs dfs -cat /out/*
01
        26.5
02
        26.6
03
        29.1
04
        30.8
        31.1
05
06
       33.6
07
        38.5
98
        40.2
09
        36.5
10
        36.9
11
        27.6
12
        25.9
```