```
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$
$HADOOP_HOME/bin/hadoop fs -cat weather.txt
Queensland,GoldCoast,25
Victoria,Melbourne,125
Victoria,Geelong,90
Victoria,Wodonga,10
NSW,Lismore,900
Queensland,Brisbane,50
South Australia,Adelaide,300
Western Australia,Perth,200
Western Australia,Albany,200
Western Australia,Broome,10
California,Los Angeles,225
Illinois,Chicago,150
Texas,Houston,130
Arizona,Phoenix,890
Pennsylvania,Philadelphia,750
Texas,San Antonio,220
California,San Diego,350
Texas,Dallas,110
California,San Jose,550
Texas,Austin,600
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$ javac -
classpath ${HADOOP_CLASSPATH} solution2.java
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$ jar cf
solution2.jar solution2*.class
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$
$HADOOP_HOME/bin/hadoop fs -rm -r /user/out
22/04/16 17:05:48 INFO fs.TrashPolicyDefault: Namenode trash
configuration: Deletion interval = 0 minutes, Emptier interval = 0
minutes.
Deleted /user/out
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$
$HADOOP_HOME/bin/hadoop jar solution2.jar solution2 weather.txt /user/out
22/04/16 17:06:08 INFO client.RMProxy: Connecting to ResourceManager at
bigdata-VirtualBox/10.0.2.15:8032
22/04/16 17:06:09 WARN mapreduce.JobResourceUploader: Hadoop command-line
option parsing not performed. Implement the Tool interface and execute
your application with ToolRunner to remedy this.
22/04/16 17:06:09 INFO input.FileInputFormat: Total input paths to
process : 1
22/04/16 17:06:09 INFO mapreduce.JobSubmitter: number of splits:1
22/04/16 17:06:09 INFO mapreduce.JobSubmitter: Submitting tokens for job:
job_1650071344200_0017
22/04/16 17:06:10 INFO impl.YarnClientImpl: Submitted application
application_1650071344200_0017
22/04/16 17:06:10 INFO mapreduce.Job: The url to track the job:
http://bigdata-VirtualBox:8088/proxy/application_1650071344200_0017/
22/04/16 17:06:10 INFO mapreduce.Job: Running job: job_1650071344200_0017
22/04/16 17:06:18 INFO mapreduce.Job: Job job_1650071344200_0017 running
in uber mode : false
22/04/16 17:06:18 INFO mapreduce.Job:  map 0% reduce 0%
22/04/16 17:06:24 INFO mapreduce.Job:  map 100% reduce 0%
22/04/16 17:06:31 INFO mapreduce.Job:  map 100% reduce 100%
22/04/16 17:06:32 INFO mapreduce.Job: Job job_1650071344200_0017
completed successfully
22/04/16 17:06:32 INFO mapreduce.Job: Counters: 49
        File System Counters
```

```
                FILE: Number of bytes read=336
                FILE: Number of bytes written=237893
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=572
                HDFS: Number of bytes written=222
                HDFS: Number of read operations=6
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
                Launched map tasks=1
                Launched reduce tasks=1
                Data-local map tasks=1
                Total time spent by all maps in occupied slots (ms)=3972
                Total time spent by all reduces in occupied slots (ms)=4280
                Total time spent by all map tasks (ms)=3972
                Total time spent by all reduce tasks (ms)=4280
                Total vcore-milliseconds taken by all map tasks=3972
                Total vcore-milliseconds taken by all reduce tasks=4280
                Total megabyte-milliseconds taken by all map tasks=4067328
                Total megabyte-milliseconds taken by all reduce tasks=4382720
        Map-Reduce Framework
                Map input records=20
                Map output records=20
                Map output bytes=290
                Map output materialized bytes=336
                Input split bytes=111
                Combine input records=0
                Combine output records=0
                Reduce input groups=10
                Reduce shuffle bytes=336
                Reduce input records=20
                Reduce output records=10
                Spilled Records=40
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=185
                CPU time spent (ms)=2540
                Physical memory (bytes) snapshot=443518976
                Virtual memory (bytes) snapshot=3851235328
                Total committed heap usage (bytes)=339738624
        Shuffle Errors
                BAD_ID=0
                CONNECTION=0
                IO_ERROR=0
                WRONG_LENGTH=0
                WRONG_MAP=0
                WRONG_REDUCE=0
        File Input Format Counters
                Bytes Read=461
        File Output Format Counters
                Bytes Written=222
bigdata@bigdata-VirtualBox:~/Desktop/INFO312/Assignment 1$
$HADOOP_HOME/bin/hadoop fs -cat /user/out/part-r-00000
Arizona                 890     890     890
California              1125    550     225
```

```
Illinois              150   150   150
NSW                   900   900   900
Pennsylvania          750   750   750
Queensland            75    50    25
South Australia       300   300   300
Texas                 1060  600   110
Victoria              225   125   10
Western Australia     410   200   10
```