

```

bigdata@bigdata-VirtualBox:~/A1$ export
HADOOP_CLASSPATH=$(HADOOP_HOME/bin/hadoop classpath)
bigdata@bigdata-VirtualBox:~/A1$ javac -classpath ${HADOOP_CLASSPATH}
solution3.java
bigdata@bigdata-VirtualBox:~/A1$ jar cf solution3.jar solution3*.class
bigdata@bigdata-VirtualBox:~/A1$ $HADOOP_HOME/bin/hadoop jar
solution3.jar solution3 sales.txt /user/bigdata/output
21/10/13 10:18:02 INFO client.RMPProxy: Connecting to ResourceManager at
bigdata-VirtualBox/10.0.2.15:8032
21/10/13 10:18:03 WARN mapreduce.JobResourceUploader: Hadoop command-line
option parsing not performed. Implement the Tool interface and execute
your application with ToolRunner to remedy this.
21/10/13 10:18:03 INFO input.FileInputFormat: Total input paths to
process : 1
21/10/13 10:18:03 INFO mapreduce.JobSubmitter: number of splits:1
21/10/13 10:18:03 INFO mapreduce.JobSubmitter: Submitting tokens for job:
job_1634070937113_0022
21/10/13 10:18:03 INFO impl.YarnClientImpl: Submitted application
application_1634070937113_0022
21/10/13 10:18:03 INFO mapreduce.Job: The url to track the job:
http://bigdata-VirtualBox:8088/proxy/application_1634070937113_0022/
21/10/13 10:18:03 INFO mapreduce.Job: Running job: job_1634070937113_0022
21/10/13 10:18:10 INFO mapreduce.Job: Job job_1634070937113_0022 running
in uber mode : false
21/10/13 10:18:10 INFO mapreduce.Job:  map 0% reduce 0%
21/10/13 10:18:15 INFO mapreduce.Job:  map 100% reduce 0%
21/10/13 10:18:20 INFO mapreduce.Job:  map 100% reduce 100%
21/10/13 10:18:20 INFO mapreduce.Job: Job job_1634070937113_0022
completed successfully
21/10/13 10:18:20 INFO mapreduce.Job: Counters: 49
    File System Counters
        FILE: Number of bytes read=88
        FILE: Number of bytes written=237407
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=164
        HDFS: Number of bytes written=95
        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)=2614
        Total time spent by all reduces in occupied slots (ms)=2953
        Total time spent by all map tasks (ms)=2614
        Total time spent by all reduce tasks (ms)=2953
        Total vcore-milliseconds taken by all map tasks=2614
        Total vcore-milliseconds taken by all reduce tasks=2953
        Total megabyte-milliseconds taken by all map tasks=2676736
        Total megabyte-milliseconds taken by all reduce tasks=3023872
    Map-Reduce Framework
        Map input records=7
        Map output records=7
        Map output bytes=68
        Map output materialized bytes=88

```

```
Input split bytes=109
Combine input records=0
Combine output records=0
Reduce input groups=3
Reduce shuffle bytes=88
Reduce input records=7
Reduce output records=12
Spilled Records=14
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=124
CPU time spent (ms)=1290
Physical memory (bytes) snapshot=447455232
Virtual memory (bytes) snapshot=3828072448
Total committed heap usage (bytes)=319815680
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Input Format Counters
```