```
{\tt root@hadoop-master:} \textit{\textit{~}\# hadoop jar /shared\_volume/HadoopFileStatus.jar /user/root/input purchases.txt achats.txt}
```

2549 bytes

File Name: purchases.txt

File Size: 2549
File owner: root
File permission: rw-r--r-File Replication: 2

File Replication: 2
File Block Size: 134217728
Block offset: 0

Block hosts: hadoop-slave1 hadoop-slave2

root@hadoop-master:~#

Block length: 2549

## root@hadoop-master:~# hadoop jar /shared volume/ReadHDFS.jar /user/root/input/purchases.txt 2012-01-01 09:00 San Jose Men's Clothing 214.05 Amex 2012-01-01 09:00 Fort Worth Women's Clothing 153.57 Visa 09:00 San Diego Music 66.08 Cash 2012-01-01 2012-01-01 09:00 Pittsburgh 493.51 Discover Pet Supplies 09:00 Omaha Children's Clothing 235.63 MasterCard 2012-01-01 2012-01-01 09:00 Stockton Men's Clothing 247.18 MasterCard 2012-01-01 09:00 Austin Cameras 379.6 Visa 2012-01-01 09:00 New York Consumer Electronics 296.8 Cash 2012-01-01 09:00 Corpus Christi Toys 25.38 Discover 2012-01-01 09:00 Fort Worth Toys 213.88 Visa 2012-01-01 09:00 Las Vegas Video Games 53.26 Visa 2012-01-01 09:00 Newark Video Games 39.75 Cash 2012-01-01 09:00 Austin Cameras 469.63 MasterCard 2012-01-01 09:00 Greensboro DVDs 290.82 MasterCard 09:00 San Francisco Music 260.65 Discover 2012-01-01

root@hadoop-master:~# hadoop jar /shared\_volume/ReadHDFS.jar /user/root/input/bonjour.txt "m"
Bonjour tout le monde !Mon message personnalis??????
root@hadoop-master:~#

PS C:\Users\ahmed\Downloads\Bigdatalabs\hadoop\_lab> docker cp "C:\hadoop\_project\ReadHDFS.jar" hadoop-master:/shared\_volume/ReadHDFS.jar Successfully copied 7.68kB to hadoop-master:/shared\_volume/ReadHDFS.jar

PS C:\Users\ahmed\Downloads\Bigdatalabs\hadoop\_lab> docker cp "C:\hadoop\_project\WriteHDFS.jar" hadoop-master:/shared\_volume/WriteHDFS.jar^C
PS C:\Users\ahmed\Downloads\Bigdatalabs\hadoop\_lab> docker cp "C:\hadoop\_project\WriteHDFS.jar" hadoop-master:/shared\_volume/WriteHDFS.jar
Successfully copied 9.22kB to hadoop-master:/shared\_volume/WriteHDFS.jar

PS C:\Users\ahmed\Downloads\Bigdatalabs\hadoop\_lab> docker cp "C:\hadoop\_project\WordCount.jar" hadoop-master:/shared\_volume/WordCount.jar >>

Successfully copied 12.8kB to hadoop-master:/shared\_volume/WordCount.jar  $\,$ 

PS C:\Users\ahmed\Downloads\Bigdatalabs\hadoop\_lab>

```
root@hadoop-master:~# hadoop jar /shared_volume/WordCount.jar /user/root/input/purchases.txt /user/root/output/wordcount
2025-10-07 17:44:19,349 INFO client.RMProxy: Connecting to ResourceManager at hadoop-master/172.19.0.2:8032
2025-10-07 17:44:19,638 INFO client.AHSProxy: Connecting to Application History server at localhost/127.0.0.1:10200
2025-10-07 17:44:20,097 WARN mapreduce. JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and e
xecute your application with ToolRunner to remedy this.
2025-10-07 17:44:20,179 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/root/.staging/job_175985
2401135 0002
2025-10-07 17:44:20,670 INFO input.FileInputFormat: Total input files to process : 1
2025-10-07 17:44:20,902 INFO mapreduce.JobSubmitter: number of splits:1
2025-10-07 17:44:21,017 INFO Configuration.deprecation: yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.s
ystem-metrics-publisher.enabled
2025-10-07 17:44:21,244 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1759852401135_0002
2025-10-07 17:44:21,247 INFO mapreduce.JobSubmitter: Executing with tokens: []
2025-10-07 17:44:21,560 INFO conf.Configuration: resource-types.xml not found
2025-10-07 17:44:21,560 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2025-10-07 17:44:23,797 INFO impl.YarnClientImpl: Submitted application application_1759852401135_0002
2025-10-07 17:44:23,901 INFO mapreduce.Job: The url to track the job: http://hadoop-master:8088/proxy/application_1759852401135_0002/
2025-10-07 17:44:23,902 INFO mapreduce.Job: Running job: job_1759852401135_0002
2025-10-07\ 17:44:44,594\ INFO\ mapreduce. Job:\ Job\ job\_1759852401135\_0002\ running\ in\ uber\ mode:\ false
2025-10-07 17:44:44,614 INFO mapreduce.Job: map 0% reduce 0%
2025-10-07 17:45:14,896 INFO mapreduce.Job: map 100% reduce 0%
2025-10-07 17:45:25,977 INFO mapreduce.Job: map 100% reduce 100%
2025-10-07 17:45:29,059 INFO mapreduce.Job: Job job 1759852401135 0002 completed successfully
2025-10-07 17:45:29,930 INFO mapreduce.Job: Counters: 54
                 File System Counters
                                FILE: Number of bytes read=1637
                                FILE: Number of bytes written=446681
                                FILE: Number of read operations=0
                                FILE: Number of large read operations=0
                                FILE: Number of write operations=0
```

HDFS: Number of bytes read=2669

HDFS: Number of bytes written=1142 HDFS: Number of read operations=8

HDFS: Number of write operations=2

Launched map tasks=1 Launched reduce tasks=1 Data-local map tasks=1

Job Counters

HDFS: Number of large read operations=0

HDFS: Number of bytes read erasure-coded=0

```
File System Counters
               FILE: Number of bytes read=1637
               FILE: Number of bytes written=446681
                FILE: Number of read operations=0
               FILE: Number of large read operations=0
               FILE: Number of write operations=0
               HDFS: Number of bytes read=2669
               HDFS: Number of bytes written=1142
               HDFS: Number of read operations=8
               HDFS: Number of large read operations=0
               HDFS: Number of write operations=2
               HDFS: Number of bytes read erasure-coded=0
       Job Counters
               Launched map tasks=1
               Launched reduce tasks=1
               Data-local map tasks=1
                Peak Reduce Virtual memory (bytes)=261
        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=2549
        File Output Format Counters
                Bytes Written=1142
root@hadoop-master:~#
RAM 3.17 GB CPU 1.13% Disk: 19.17 GB used (limit 1006.85 GB)
```

```
Dyces in cecen-11-2
root@hadoop-master:~# hdfs dfs -cat /user/root/output/wordcount/part-r-00000
09:00
09:01
       22
09:02
108.69 1
117.81 1
135.96 1
136.9
        1
15.41
153.57 1
16.78
170.2
        1
182.05 1
189.01 1
2012-01-01
                50
205.06 1
```

```
root@hadoop-master:~# find / -name 'hadoop-streaming*.jar' 2>/dev/null
/usr/local/hadoop/share/hadoop/tools/lib/hadoop-streaming-3.2.0.jar
/usr/local/hadoop/share/hadoop/tools/sources/hadoop-streaming-3.2.0-sources.jar
/usr/local/hadoop/share/hadoop/tools/sources/hadoop-streaming-3.2.0-test-sources.jar
```

```
\verb|root@hadoop-master:|| which is a proposed for the proof of the pro
                      -files /shared_volume/mapper.py,/shared_volume/reducer.py \
                        -mapper "python3 mapper.py"
                        -reducer "python3 reducer.py" \
                       -input /user/root/input/purchases.txt \
                      -output /user/root/output/wordcount_python
package Job Jar: \ [/tmp/hadoop-unjar 1827008077805825182/] \ [] \ /tmp/streamjob 3683874952715688917. jar \ tmp Dir=null formula and the property of the pr
2025-10-07 18:00:52,964 INFO client.RMProxy: Connecting to ResourceManager at hadoop-master/172.19.0.2:8032
2025-10-07 18:00:53,298 INFO client.AHSProxy: Connecting to Application History server at localhost/127.0.0.1:10200
2025-10-07 18:00:53,379 INFO client.RMProxy: Connecting to ResourceManager at hadoop-master/172.19.0.2:8032
2025-10-07 18:00:53,379 INFO client.AHSProxy: Connecting to Application History server at localhost/127.0.0.1:10200
2025-10-07 18:00:54,385 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/root/.staging/job_175985
2401135 0003
2025-10-07 18:00:56,011 INFO mapred.FileInputFormat: Total input files to process : 1
2025-10-07 18:00:56.311 INFO mapreduce.JobSubmitter: number of splits:2
2025-10-07 18:00:56,401 INFO Configuration.deprecation: yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.s
```

```
2025-10-07 18:00:56,678 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1759852401135_0003
2025-10-07 18:00:56,682 INFO mapreduce.JobSubmitter: Executing with tokens: []
2025-10-07 18:00:57,075 INFO conf.Configuration: resource-types.xml not found
2025-10-07 18:00:57,078 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2025-10-07\ 18:00:57,989\ INFO\ impl. Yarn Client Impl:\ Submitted\ application\ application\ 1759852401135\_0003
2025-10-07 18:00:58,066 INFO mapreduce. Job: The url to track the job: http://hadoop-master:8088/proxy/application_1759852401135_0003/
2025-10-07 18:00:58,068 INFO mapreduce.Job: Running job: job_1759852401135_0003
2025-10-07 18:01:13,092 INFO mapreduce.Job: Job job_1759852401135_0003 running in uber mode : false
2025-10-07 18:01:13,115 INFO mapreduce.Job: map 0% reduce 0%
2025-10-07 18:01:53,085 INFO mapreduce.Job: map 100% reduce 0%
2025-10-07 18:02:59,282 INFO mapreduce.Job: map 100% reduce 100%
2025-10-07 18:03:04,618 INFO mapreduce.Job: Job job_1759852401135_0003 completed successfully
2025-10-07 18:03:10,530 INFO mapreduce.Job: Counters: 54
       File System Counters
               FILE: Number of bytes read=3839
               FILE: Number of bytes written=684015
               FILE: Number of read operations=0
                  Peak Map Physical memory (bytes)=272109568
                  Peak Map Virtual memory (bytes)=2615517184
                  Peak Reduce Physical memory (bytes)=207179776
                  Peak Reduce Virtual memory (bytes)=2616299520
         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=3824
         File Output Format Counters
                  Bytes Written=1142
2025-10-07 18:03:10,547 INFO streaming.StreamJob: Output directory: /user/root/output/wordcount python
root@hadoop-master:~#
```