```
Execrcise-3: Map Reduce (Programs)
Use the Hadoop framework to write a custom MapReduce program to perform word count
operation on a custom data set.
JAVA CODE:
package shwethahebbar152;
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.FileInputFormat;
import org.apache.hadoop.mapred.FileOutputFormat;
import org.apache.hadoop.mapred.JobClient;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.MapReduceBase;
import org.apache.hadoop.mapred.Mapper;
import org.apache.hadoop.mapred.OutputCollector;
import org.apache.hadoop.mapred.Reducer;
import org.apache.hadoop.mapred.Reporter;
import org.apache.hadoop.mapred.TextOutputFormat;
import org.apache.hadoop.mapred.TextInputFormat;
```

```
public class WordCount {
public static class Map extends MapReduceBase implements
Mapper<LongWritable, Text, Text, IntWritable> {
private final static IntWritable one = new IntWritable(1);
private Text word = new Text();
public void map(LongWritable key, Text value, OutputCollector<Text, IntWritable>
output, Reporter reporter) throws IOException {
String line = value.toString();
StringTokenizer tokenizer = new StringTokenizer(line);
while (tokenizer.hasMoreTokens()) {
word.set(tokenizer.nextToken());
output.collect(word, one);
}
}
}
```

```
public static class Reduce extends MapReduceBase implements
Reducer<Text, IntWritable, Text, IntWritable> {
public void reduce(Text key, Iterator<IntWritable> values,
OutputCollector<Text, IntWritable> output, Reporter reporter)
throws IOException {
int sum = 0;
while (values.hasNext()) {
sum += values.next().get();
output.collect(key, new IntWritable(sum));
public static void main(String[] args) throws Exception {
JobConf conf = new JobConf(WordCount.class);
conf.setJobName("wordcount");
conf.setOutputKeyClass(Text.class);
conf.setOutputValueClass(IntWritable.class);
conf.setMapperClass(Map.class);
conf.setCombinerClass(Reduce.class);
conf.setReducerClass(Reduce.class);
conf.setInputFormat(TextInputFormat.class);
conf.setOutputFormat(TextOutputFormat.class);
FileInputFormat.setInputPaths(conf, new Path(args[0]));
FileOutputFormat.setOutputPath(conf, new Path(args[1]));
JobClient.runJob(conf);
```

```
}

Di WordCount.java 
1 package shweth
2
39 import java.io
```

```
package shwethahebbar152;
  3⊖ import java.io.IOException;
  4 import java.util.*;
  5 import org.apache.hadoop.fs.Path;
  6 import org.apache.hadoop.io.IntWritable;
    import org.apache.hadoop.io.LongWritable;
8 import org.apache.hadoop.io.Text;
  9 import org.apache.hadoop.mapred.FileInputFormat;
 10 import org.apache.hadoop.mapred.FileOutputFormat;
 import org.apache.hadoop.mapred.JobClient;
 12 import org.apache.hadoop.mapred.JobConf;
 13 import org.apache.hadoop.mapred.MapReduceBase;
 14 import org.apache.hadoop.mapred.Mapper;
 15 import org.apache.hadoop.mapred.OutputCollector;
 16 import org.apache.hadoop.mapred.Reducer;
 17 import org.apache.hadoop.mapred.Reporter;
 18 import org.apache.hadoop.mapred.TextOutputFormat;
 19 import org.apache.hadoop.mapred.TextInputFormat;
 21 public class WordCount {
 22⊖ public static class Map extends MapReduceBase implements
 23 Mapper<LongWritable, Text, Text, IntWritable> {
 24 private final static IntWritable one = new IntWritable(1);
 25 private Text word = new Text();
△26⊖ public void map(LongWritable key, Text value, OutputCollector<Text, IntWritable>
 27 output, Reporter reporter) throws IOException {
 28 String line = value.toString();
 29 StringTokenizer tokenizer = new StringTokenizer(line);
 30 while (tokenizer.hasMoreTokens()) {
 31 word.set(tokenizer.nextToken());
 32 output.collect(word, one);
 33 }
```

```
☑ WordCount.java 

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 29 Stringtokenizer tokenizer = new Stringtokenizer(time);
 30 while (tokenizer.hasMoreTokens()) {
 31 word.set(tokenizer.nextToken());
 32 output.collect(word, one);
 33 }
 34 }
 35 }
 36⊖ public static class Reduce extends MapReduceBase implements
 37 Reducer<Text, IntWritable, Text, IntWritable> {
△38⊖ public void reduce(Text key, Iterator<IntWritable> values,
 39 OutputCollector<Text, IntWritable> output, Reporter reporter)
 40 throws IOException {
 41 int sum = 0;
 42 while (values.hasNext()) {
 43 sum += values.next().get();
 45 output.collect(key, new IntWritable(sum));
 46 }
 47 }
 48⊖ public static void main(String[] args) throws Exception {
 49 JobConf conf = new JobConf(WordCount.class);
 50 conf.setJobName("wordcount");
 51 conf.setOutputKeyClass(Text.class);
 52 conf.setOutputValueClass(IntWritable.class);
 53 conf.setMapperClass(Map.class);
 54 conf.setCombinerClass(Reduce.class);
 55 conf.setReducerClass(Reduce.class);
 56 conf.setInputFormat(TextInputFormat.class);
 57 conf.setOutputFormat(TextOutputFormat.class);
 58 FileInputFormat.setInputPaths(conf, new Path(args[0]));
 59 FileOutputFormat.setOutputPath(conf, new Path(args[1]));
 60 JobClient.runJob(conf);
 61 }
62 }
```

```
$ cd $HADOOP_HOME/sbin
         dmin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration. WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC] Starting resourcemanager
Starting nodemanagers
            in1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ jps
16690 DataNode
17122 ResourceManager
16532 NameNode
16933 SecondaryNameNode
15545 org.eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
17628 Jps
17278 NodeManager
                    -280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs fsck /
Connecting to namenode via http://localhost:9870/fsck?ugi=hdoop&path=%2F
FSCK started by hdoop (auth:SIMPLE) from /127.0.0.1 for path / at Fri Jun 17 12:38:39 IST 2022
 Status: HEALTHY
 Number of data-nodes: 1
Number of racks:
Total dirs:
                                         20
  Total symlinks:
Replicated Blocks:
 Total size: 100446138 B
Total files: 45
 Total blocks (validated):
Minimally replicated blocks:
Over-replicated blocks:
Under-replicated blocks:
                                        42 (avg. block size 2391574 B)
42 (100.0 %)
                                         0 (0.0 %)
0 (0.0 %)
 Mis-replicated blocks:
                                         0 (0.0 %)
 Default replication factor:
 Average block replication:
                                         1.0
```

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42 (100.0 %)
0 (0.0 %)
0 (0.0 %)
     Minimally replicated blocks:
Over-replicated blocks:
      Under-replicated blocks:
                                                                                                                                                  0 (0.0 %)
      Mis-replicated blocks:
      Default replication factor:
      Average block replication:
                                                                                                                                                 1.0
     Missing blocks:
                                                                                                                                                  0
      Corrupt blocks:
     Missing replicas:
                                                                                                                                                  0 (0.0 %)
 Erasure Coded Block Groups:
     Total size: 0 B
Total files: 0
      Total block groups (validated):
      Minimally erasure-coded block groups: 0
   Minimally erasure-coded block groups: 0
Over-erasure-coded block groups: 0
Under-erasure-coded block groups: 0
Unsatisfactory placement block groups: 0
Average block group size: 0.0
Missing block groups: 0
Corrupt block groups: 0
      Missing internal blocks:
  FSCK ended at Fri Jun 17 12:38:39 IST 2022 in 14 milliseconds
The filesystem under path '/' is HEALTHY
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -ls /
 Found 6 items
  drwxr-xr-x
                                                       - hdoop supergroup
                                                                                                                                                                                         0 2022-05-24 10:18 /1nt19is080
 drwxr-xr-x - hdoop supergroup
drwxr-xr-x - hdoop supergroup
drwxr-xr-x - hdoop supergroup
drwxrwxr-x - hdoop supergroup
                                                                                                                                                                                        0 2022-06-13 15:07 /1nt19is119
0 2022-05-24 09:30 /manvesh
                                                                                                                                                                                         0 2022-06-13 14:27 /test
                                                                                                                                                                                         0 2021-07-28 12:58 /tmp
                                                       - hdoop supergroup
                                                                                                                                                                                       0 2021-07-28 12:56 /user
  drwxr-xr-x
      doop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -mkdir -p /shwetha
doop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -touchz /shwetha/first.txt
                             admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile - /shwetha/text.txt
 the girl in the town is the only girl in the town
hdoopgadmin1-HP-288-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile - /shwetha/text.txt

the girl in the town is the only girl in the town

2022-06-17 12:50:44,010 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

hdoopgadmin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hadoop jar /home/hdoop/Desktop/shwetha.jar /shwetha /out

2022-06-17 12:52:02,102 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

2022-06-17 12:52:02,239 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

2022-06-17 12:52:02,384 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and

execute your application with ToolRunner to remedy this.

2022-06-17 12:52:02,401 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_165

5449652406_0001

2022-06-17 12:52:02,490 INFO sasl.SaslDataTcansferClient: SASL packed to the sask of t
2022-06-17 12:52:03,490 INFO mapreduce. Jobs bath Iterative countries of countries of countries of countries of the countries
 2022-06-17 12:52:17,919 INFO mapreduce.Job: Job job_16554
2022-06-17 12:52:17,995 INFO mapreduce.Job: Counters: 55
File System Counters
FILE: Number of bytes read=67
FILE: Number of bytes written=903415
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=346
HDFS: Number of bytes written=37
```

```
2022-06-17 12:52:17,919 INFO mapreduce.Job: Job job_1655449652406_0001 completed successfully
2022-06-17 12:52:17,995 INFO mapreduce.Job: Counters: 55
          File System Counters
                     FILE: Number of bytes read=67
                     FILE: Number of bytes written=903415
                     FILE: Number of read operations=0
                     FILE: Number of large read operations=0
                     FILE: Number of write operations=0
HDFS: Number of bytes read=346
HDFS: Number of bytes written=37
                     HDFS: Number of read operations=14
                     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=3
                     Launched reduce tasks=1
                     Other local map tasks=1
                     Data-local map tasks=2
                     Total time spent by all maps in occupied slots (ms)=7150
                     Total time spent by all reduces in occupied slots (ms)=1512
Total time spent by all map tasks (ms)=7150
Total time spent by all reduce tasks (ms)=1512
                     Total vcore-milliseconds taken by all map tasks=7150
Total vcore-milliseconds taken by all reduce tasks=1512
Total megabyte-milliseconds taken by all map tasks=7321600
                     Total megabyte-milliseconds taken by all reduce tasks=1548288
          Map-Reduce Framework
                     Map input records=1
                     Map output records=12
Map output bytes=98
                     Map output materialized bytes=79
                     Input split bytes=271
                     Combine input records=12
                     Combine output records=6
                     Reduce input groups=6
                     Reduce shuffle bytes=79
                     Reduce input records=6
```

hdoop@admin1-HP-280-G4-MT-Business-PC:~\$ cd \$HADOOP_HOME/sbin hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ start-all.sh WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.

WARNING: This is not a recommended production deployment configuration.

WARNING: Use CTRL-C to abort. Starting namenodes on [localhost]

Starting datanodes

Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]

Starting resourcemanager Starting nodemanagers

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ jps

16690 DataNode

17122 ResourceManager

16532 NameNode

16933 SecondaryNameNode

15545 org.eclipse.equinox.launcher 1.5.600.v20191014-2022.jar

17628 Jps

17278 NodeManager

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hdfs fsck /

Connecting to namenode via http://localhost:9870/fsck?ugi=hdoop&path=%2F

FSCK started by hdoop (auth:SIMPLE) from /127.0.0.1 for path / at Fri Jun 17 12:38:39 IST 2022

Status: HEALTHY

Number of data-nodes: 1 Number of racks: 1 Total dirs: 20 Total symlinks: 0

Replicated Blocks:

Total size: 100446138 B

Total files: 45

Total blocks (validated): 42 (avg. block size 2391574 B)

Minimally replicated blocks: 42 (100.0 %)

Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)

Default replication factor: 1 Average block replication: 1.0

Missing blocks: 0
Corrupt blocks: 0

Missing replicas: 0 (0.0 %)

Erasure Coded Block Groups:

Total size: 0 B
Total files: 0

Total block groups (validated): 0

Minimally erasure-coded block groups: 0

Over-erasure-coded block groups: 0
Under-erasure-coded block groups: 0
Unsatisfactory placement block groups: 0

Average block group size: 0.0
Missing block groups: 0
Corrupt block groups: 0
Missing internal blocks: 0

FSCK ended at Fri Jun 17 12:38:39 IST 2022 in 14 milliseconds

The filesystem under path '/' is HEALTHY

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hdfs dfs -ls /

Found 6 items

 drwxr-xr-x
 - hdoop supergroup
 0 2022-05-24 10:18 /1nt19is080

 drwxr-xr-x
 - hdoop supergroup
 0 2022-06-13 15:07 /1nt19is119

 drwxr-xr-x
 - hdoop supergroup
 0 2022-05-24 09:30 /manvesh

 drwxr-xr-x
 - hdoop supergroup
 0 2022-06-13 14:27 /test

 drwxr-xr-x
 - hdoop supergroup
 0 2021-07-28 12:58 /tmp

 drwxr-xr-x
 - hdoop supergroup
 0 2021-07-28 12:56 /user

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hdfs dfs -mkdir -p /shwetha

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hdfs dfs -touchz

/shwetha/first.txt

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hdfs dfs -appendToFile -/shwetha/text.txt

the girl in the town is the only girl in the town

2022-06-17 12:50:44,010 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin\$ hadoop jar

/home/hdoop/Desktop/shwetha.jar/shwetha/out

2022-06-17 12:52:02,102 INFO client.RMProxy: Connecting to ResourceManager at

/127.0.0.1:8032

2022-06-17 12:52:02,239 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

```
2022-06-17 12:52:02,384 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
```

2022-06-17 12:52:02,401 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_1655449652406_0001

2022-06-17 12:52:02,490 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

2022-06-17 12:52:02,589 INFO mapred.FileInputFormat: Total input files to process: 2

2022-06-17 12:52:02,625 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

2022-06-17 12:52:02,667 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

2022-06-17 12:52:03,092 INFO mapreduce.JobSubmitter: number of splits:3

2022-06-17 12:52:03,192 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

2022-06-17 12:52:03,208 INFO mapreduce. JobSubmitter: Submitting tokens for job:

job_1655449652406_0001

2022-06-17 12:52:03,208 INFO mapreduce. JobSubmitter: Executing with tokens:

2022-06-17 12:52:03,332 INFO conf. Configuration: resource-types.xml not found

2022-06-17 12:52:03,332 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2022-06-17 12:52:03,678 INFO impl. YarnClientImpl: Submitted application

application 1655449652406 0001

2022-06-17 12:52:03,736 INFO mapreduce. Job: The url to track the job:

 $http://admin1-HP-280-G4-MT-Business-PC: 8088/proxy/application_1655449652406_0001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/100001/10001/10001/10001/10001/100001/10001/10001/10001/100001/10001/100001/100001/100001/$

2022-06-17 12:52:03,737 INFO mapreduce.Job: Running job: job_1655449652406_0001

2022-06-17 12:52:08,805 INFO mapreduce.Job: Job job_1655449652406_0001 running in uber mode : false

2022-06-17 12:52:08,807 INFO mapreduce.Job: map 0% reduce 0%

2022-06-17 12:52:13,876 INFO mapreduce.Job: map 100% reduce 0%

2022-06-17 12:52:17,898 INFO mapreduce.Job: map 100% reduce 100%

2022-06-17 12:52:17,919 INFO mapreduce.Job: Job job_1655449652406_0001 completed successfully

2022-06-17 12:52:17,995 INFO mapreduce.Job: Counters: 55

File System Counters

FILE: Number of bytes read=67

FILE: Number of bytes written=903415

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=346

HDFS: Number of bytes written=37

HDFS: Number of read operations=14

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=3

Launched reduce tasks=1

Other local map tasks=1

Data-local map tasks=2

Total time spent by all maps in occupied slots (ms)=7150

Total time spent by all reduces in occupied slots (ms)=1512

Total time spent by all map tasks (ms)=7150

Total time spent by all reduce tasks (ms)=1512

Total vcore-milliseconds taken by all map tasks=7150

Total vcore-milliseconds taken by all reduce tasks=1512

Total megabyte-milliseconds taken by all map tasks=7321600

Total megabyte-milliseconds taken by all reduce tasks=1548288

Map-Reduce Framework

Map input records=1

Map output records=12

Map output bytes=98

Map output materialized bytes=79

Input split bytes=271

Combine input records=12

Combine output records=6

Reduce input groups=6

Reduce shuffle bytes=79

Reduce input records=6

Reduce output records=6

Spilled Records=12

Shuffled Maps =3

Failed Shuffles=0

Merged Map outputs=3

GC time elapsed (ms)=354

CPU time spent (ms)=1480

Physical memory (bytes) snapshot=1119911936

Virtual memory (bytes) snapshot=10147336192

Total committed heap usage (bytes)=1164443648

Peak Map Physical memory (bytes)=336830464

```
Peak Map Virtual memory (bytes)=2534244352
       Peak Reduce Physical memory (bytes)=190541824
       Peak Reduce Virtual memory (bytes)=2544775168
  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=75
  File Output Format Counters
       Bytes Written=37
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -cat /out/part*
2022-06-17 12:52:45,602 INFO sasl.SaslDataTransferClient: SASL encryption trust check:
localHostTrusted = false, remoteHostTrusted = false
girl 2
in 2
is 1
only 1
the 4
town 2
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$
```