Map Reduce

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                                                              import java.io.IOException;
▶ ➡ JRE System Library [JavaSE-1.8]
                                                                       java.util.StringTokenizer;
                                                                       org.apache.hadoop.conf.Configuration;
   ▼ ⊞ mapReduce
                                                                       org.apache.hadoop.fs.Path;
                                                                      org.apache.hadoop.io.IntWritable;
      ▶ 🗾 wordCount.java
                                                                      org.apache.hadoop.io.Text;

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■ Referenced Libraries

                                                                      org.apache.hadoop.mapreduce.Job;
                                                                      org.apache.hadoop.mapreduce.Mapper;
  ▶ madoop-common-3.2.1.jar - /home/h
                                                                      org.apache.hadoop.mapreduce.Reducer;
org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
  ▶ 👼 hadoop-mapreduce-client-jobclient-
   ▶ 👼 hadoop-mapreduce-examples-3.2.1.
                                                                       org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
   ▶ 👼 hadoop-mapreduce-client-core-3.2.1
                                                    169
                                                              extends Mapper<Object, Text, Text, IntWritable>{
private final static IntWritable one = new IntWritable(1);
private Text word = new Text();
                                                               public void map(Object key, Text value, Context context
) throws IOException, InterruptedException {
StringTokenizer itr = new StringTokenizer(value.toString());
                                                  △20●
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```
int sum = 0;
for (IntWritable val : values) {
sum += val.get();
result.set(sum);
context.write(key, result);
public static void main(String[] args) throws Exception {
Configuration conf = new Configuration();
Job job = Job.getInstance(conf, "word count");
job.setJarByClass(wordCount.class);
job.setMapperClass(TokenizerMapper.class);
job.setCombinerClass(IntSumReducer.class);
job.setReducerClass(IntSumReducer.class);
job.setOutputKeyClass(Text.class);
job.setOutputValueClass(IntWritable.class);
FileInputFormat.addInputPath(job, new Path(args[0]));
FileOutputFormat.setOutputPath(job, new Path(args[1]));
System.exit(job.waitForCompletion(true) ? 0 : 1);
```

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ cd $HADOOP HOME
  hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1$ cd sbin
  ndoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ ls
                                                                                                             niki1nt19is097.txt
                                                                                                                                                                                   stop-all.sh
                                                                                                                                                                                     stop-balancer.sh
                                                                                                             p2.txt
ch.txt
                                                                                                             p3.txt
                                                                                                             refresh-namenodes.sh
day.txt
                                                                                                                                                                                   stop-dfs.sh
  distribute-exclude.sh
                                                                                                                                                                                    stop-secure-dns.sh
                                                                                                             start-all.cmd
                                                                                                             start-all.sh
                                                                                                             start-balancer.sh
                                                                                                                                                                                    stop-yarn.sh
                                                                                                             start-dfs.cmd
                                                                                                                                                                                   workers.sh
  httpfs.sh
                                                                                                             start-dfs.sh
                                                                                                                                                                                   x.txt
                                                                                                             start-secure-dns.sh
                                                                                                             start-yarn.cmd
                                                                                                                                                                                   yarn-daemons.sh
                                                                                                             start-varn.sh
                                                                                                              stop-all.cmd
mytext.txt
  hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ jps
5874 org.eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
6506 Jps
 VARNING: Attempting to start all Apache Hadoop-3.2.1/sbin$ start-all.sh
VARNING: This is not a recommended production deployment configuration.
VARNING: Use CTRL-C to abort.
 tarting namenodes on [localhost]
 Starting resourcemanager
 Starting nodemanagers
idoop@admtn1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -mkdir -p ~ /input idoop@admtn1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile - ~ /input/test.txt appendToFile: stdin (-) must be the sole input argument when present idoop@admtn1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile ~ /input/test.txt idoop@admtn1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile ~ /input/test.txt
ndoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -appendToFile - ~/input/test.txt
ny name is lakshana my name is greeshma2022-06-17 09:26:55,650 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted
= false, remoteHostTrusted = false
                                    .nadoop.uttt.kunjar.matn(kunjar.java:230)
4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hadoop jar /home/hdoop/Desktop/lakshana.jar ~/input ~/out
2022-06-17 09:31:55,017 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032
2022-06-17 09:31:55,304 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 09:31:55,343 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_165
2022-06-17 09:31:55,343 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_5437936096_0001
2022-06-17 09:31:55,457 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false 2022-06-17 09:31:55,556 INFO input.FileInputFormat: Total input files to process: 1
2022-06-17 09:31:55,636 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false 2022-06-17 09:31:55,696 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false 2022-06-17 09:31:55,718 INFO mapreduce.JobSubmitter: number of splits:1
2022-06-17 09:31:55,826 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false 2022-06-17 09:31:55,826 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false 2022-06-17 09:31:56,252 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1655437936096_0001
2022-06-17 09:31:56,252 INFO mapreduce.JobSubmitter: Executing with tokens: []
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ hdfs dfs -cat ~/out/part*
2022-06-17 09:32:46,136 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
 greeshma
```

lakshana