



# **CSE488: Big Data Analytics [SPRING 2023]**

## **Assignment 5**

**Submitted by:**

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Applications Places System Wed Mar 22, 9:06 PM cloudera

Browse and run installed applications Java - WordCount/src/WordCount.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer: WordCount.java, MapForWordCount.java, ReduceForWordCount.java

```
15 }Configuration config = new Configuration();
16 Path input = new Path(args[0]);
17 Path output = new Path(args[1]);
18
19 //Instantiate a Job object for your job's configuration.
20 @SuppressWarnings("deprecation")
21 Job job = new Job(config, "WordCount");
22
23 /*
24  * Specify the jar file that contains your driver, mapper, and reducer.
25  * Hadoop will transfer this jar file to nodes in your cluster running
26  * mapper and reducer tasks.
27  */
28 job.setJarByClass(WordCount.class);
29 job.setMapperClass(MapForWordCount.class);
30 job.setReducerClass(ReduceForWordCount.class);
31 job.setOutputKeyClass(Text.class);
32 job.setOutputValueClass(IntWritable.class);
33 FileInputFormat.setInputPaths(job, input);
34 FileOutputFormat.setOutputPath(job, output);
35
36 /* Start the MapReduce job and wait for it to finish.
37  * If it finishes successfully, return 0. If not, return 1.
38  */
39 boolean success = job.waitForCompletion(true);
40 System.exit(success ? 0 : 1);
41 }
```

Problems Javadoc Declaration Console

No consoles to display at this time

Writable Smart Insert 39 : 4

Hue - File Browser - p... Java - WordCount/src/... cloudera@quickstart:~

Applications Places System Wed Mar 22, 9:06 PM cloudera

Browse and run installed applications Java - WordCount/src/MapForWordCount.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer: WordCount.java, MapForWordCount.java, ReduceForWordCount.java

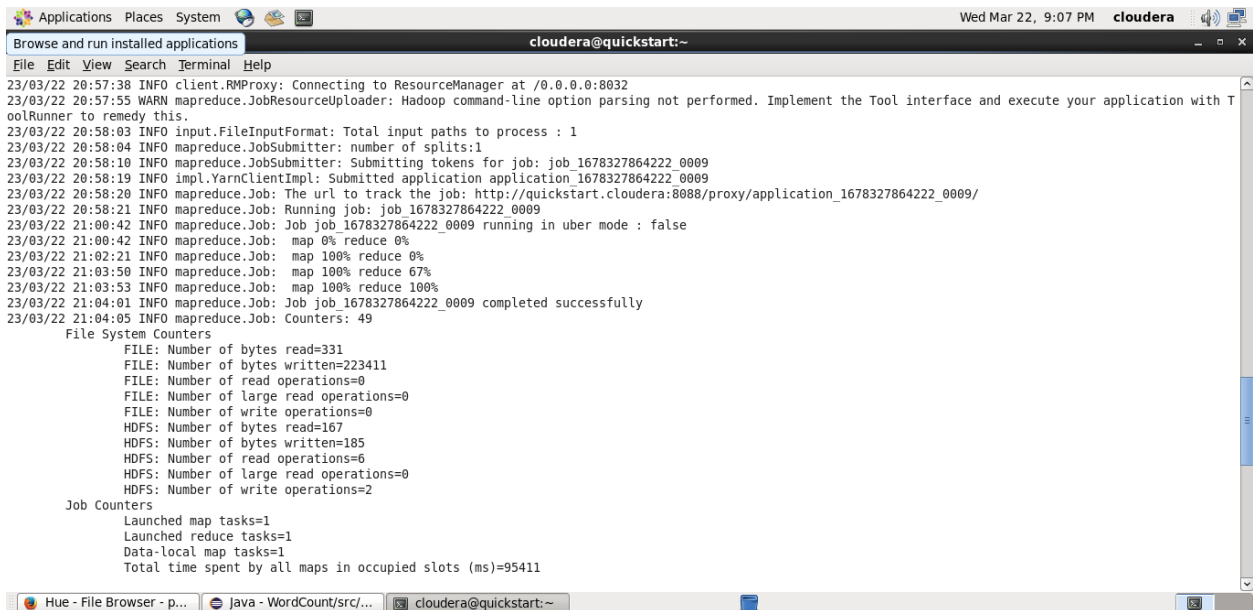
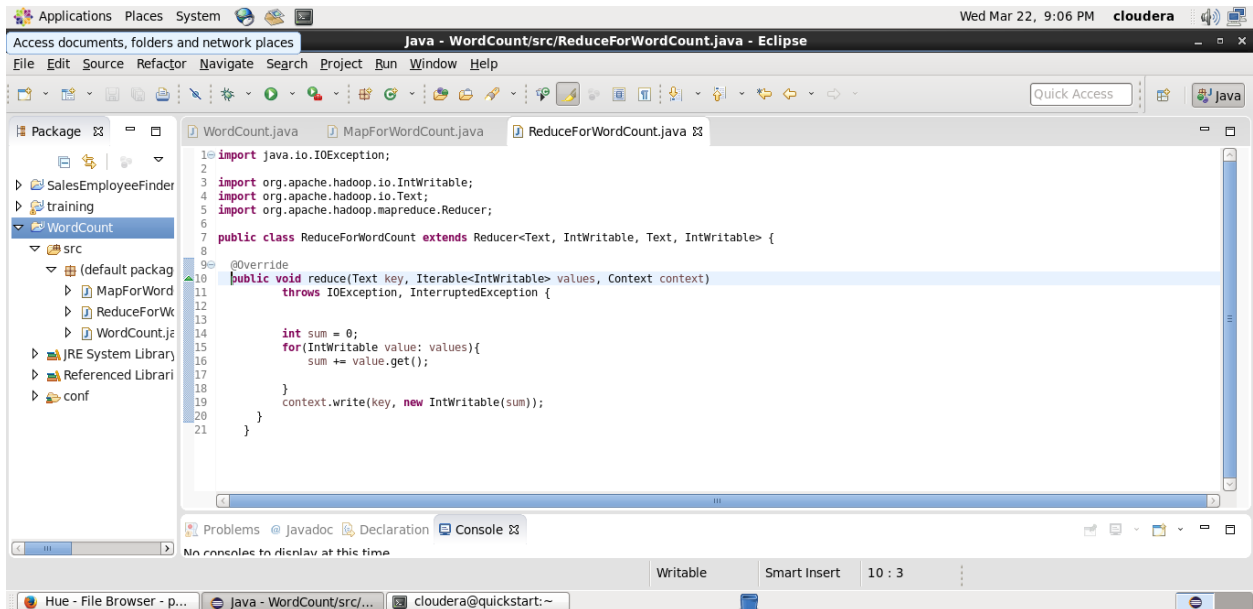
```
4 import org.apache.hadoop.io.LongWritable;
5 import org.apache.hadoop.io.Text;
6 import org.apache.hadoop.mapreduce.Mapper;
7
8 public class MapForWordCount extends Mapper<LongWritable, Text, Text, IntWritable> { @Override
9     public void map(LongWritable key, Text value, Context context)
10         throws IOException, InterruptedException {
11
12         String line = value.toString();
13         String[] words = line.split(" ");
14         for(int i=0; i<words.length; i++){
15             for(int j=i+1; j<words.length; j++){
16                 if((words[i].charAt(0)<words[j].charAt(0))){
17                     context.write(new Text(words[i]+", "+words[j]), new IntWritable(1));
18                 }
19                 else{
20                     context.write(new Text(words[j]+", "+words[i]), new IntWritable(1));
21                 }
22             }
23         }
24     }
25 }
26
27 }
```

Problems Javadoc Declaration Console

No consoles to display at this time

Writable Smart Insert 28 : 1

Hue - File Browser - p... Java - WordCount/src/... cloudera@quickstart:~



Applications Places System Wed Mar 22, 9:05 PM cloudera

Browse and run installed applications Hue - File Browser - part-r-00000 - File Viewer - Mozilla Firefox

Cloudera Live: Welcom... Google Account Hue - File Browser - ...

quickstart.cloudera:8888/filebrowser/view=/user/cloudera/hj/part-r-00000#p1 Search

Cloudera Hue Hadoop HBase Impala Spark Solr Oozie Cloudera Manager Getting Started

File Browser Job Browser cloudera

### File Browser

**ACTIONS**

- View as binary
- Edit file
- Download
- View file location
- Refresh

**INFO**

**Last modified**  
March 22, 2023 9:03 p.m.

**User**  
cloudera

Home / user / cloudera / hj / part-r-00000 Page 1 of 1

B, C	1
B, D	1
B, K	1
C, A	1
C, D	1
D, A	2
D, B	1
D, K	1
E, A	2
E, B	1
E, C	1
E, C	1
E, D	1

Hue - File Browser - p... java - WordCount/src/... cloudera@quickstart:~