Implement Secondary Sorting. (Write hadoop code to implement Item Sort

Program)

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-----Main class-----
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.mapreduce.Job;
public class testdriver {
    public static void main(String[] args) throws Exception {
       if (args.length != 2) {
         System.out.printf("Usage: WordCount <input dir> <output</pre>
dir>\n");
         System.exit(-1);
                Job job = new Job();
                job.setJarByClass(testdriver.class);
                job.setJobName("Word Count");
                FileInputFormat.setInputPaths(job, new Path(args[0]));
                FileOutputFormat.setOutputPath(job, new Path(args[1]));
                job.setMapperClass(testmap.class);
                job.setReducerClass(testreduce.class);
                job.setMapOutputKeyClass(IntWritable.class);
                job.setMapOutputValueClass(IntWritable.class);
                job.setOutputKeyClass(IntWritable.class);
                job.setOutputValueClass(IntWritable.class);
                boolean success = job.waitForCompletion(true);
                System.exit(success ? 0 : 1);
        }
}
-----Mapper class-----
import java.io.IOException;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Mapper;
public class testmap extends Mapper<LongWritable, Text, IntWritable,</pre>
IntWritable> {
@Override
     public void map(LongWritable key, Text value, Context context)
throws IOException, InterruptedException {
         String line = value.toString();
           String[] tokens = line.split(","); // This is the delimiter
between
           int keypart = Integer.parseInt(tokens[0]);
           int valuePart = Integer.parseInt(tokens[1]);
```

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context.write(new IntWritable(valuePart), new
IntWritable(keypart));
}
-----Reducer class-----
import java.io.IOException;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.mapreduce.Reducer;
public class testreduce extends Reducer<IntWritable,</pre>
IntWritable, IntWritable> {
@Override
        public void reduce(IntWritable key, Iterable<IntWritable>
values,
Context context) throws IOException, InterruptedException {
        for (IntWritable value : values) {
            context.write(value,key);
           }
Step 1: Export Java Eclipse Project Jar File to Cloudera
Step 2. Make Sort.txt file vi editor ->Write data
Step 3: Perform Below commands on terminal
Command Map Reduce Code
1)
     Transfer all local file to hadoop
     Hdfs dfs -put sort.txt /user/cloudera
     Hdfs dfs -put Sorting.jar /user/cloudera
2)
     Run Java Jar File for Map Reduce Operation
hadoop jar Sorting.jar testdriver sort.txt outputsort
```

List outputfile

Show outputfile

hdfs dfs -ls /user/cloudera/outputsort

hdfs dfs -cat /user/cloudera/outputsort /part-r-00000

3)

4)