```
//WordCount.java
import java.io.IOException;
import java.util.StringTokenizer;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
public class WordCount {
  public static class TokenizerMapper
       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());
     while (itr.hasMoreTokens()) {
        word.set(itr.nextToken());
        context.write(word, one);
   }
  }
  public static class IntSumReducer
       extends Reducer<Text,IntWritable,Text,IntWritable> {
    private IntWritable result = new IntWritable();
    public void reduce(Text key, Iterable<IntWritable> values,
                       Context context
                       ) throws IOException, InterruptedException {
      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);
  }
}
//input.txt
Sumit
Kshitij
Samarth
Sham
Samarth
Kshitij
Sumit
Kshitij
Anurag
//Output
student@student:~/Desktop/WordCountTutorial$ hadoop fs -ls /out321
Found 2 items
-rw-r--r-- 1 student supergroup
                                         0 2023-04-26 13:05 /out321/_SUCCESS
-rw-r--r-- 1 student supergroup
                                  65 2023-04-26 13:05 /out321/part-r-
00000
student@student:~/Desktop/WordCountTutorial$ hadoop fs -cat /out321/part-r-
00000
Anurag
            1
Kshitij
            3
Samarth
            2
Sham
            1
Shubham
            1
Sumit
            2
```

student@student:~/Desktop/WordCountTutorial\$



