ID: 10353

```
import java.io.IOException; import java.util.*;
import java.lang.Object;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapreduce.*;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.input.TextInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.mapreduce.lib.output.TextOutputFormat;
public class WordCount {
 public static class Map extends 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, Context context)
     throws IOException, InterruptedException
   {
     String line = value.toString();
     StringTokenizer tokenizer = new StringTokenizer(line);
     while (tokenizer.hasMoreTokens()) {
       word.set(tokenizer.nextToken());
       context.write(word, one);
   }
 public static class Reduce extends Reducer<Text, IntWritable,
         Text, IntWritable>
   public void reduce(Text key, Iterable<IntWritable> values,
      Context context) throws IOException, InterruptedException
     int sum = 0;
     for (IntWritable val : values) {
       sum += val.get();
     context.write(key, new IntWritable(sum));
   }
 public static void main(String[] args) throws Exception
   Configuration conf = new Configuration();
   Job job = new Job(conf, "WordCount");
   iob.setJarBvClass(WordCount.class):
   job.setOutputKeyClass(Text.class);
   job.setOutputValueClass(IntWritable.class);
```

```
job.setMapperClass(Map.class);
job.setReducerClass(Reduce.class);

job.setInputFormatClass(TextInputFormat.class);
job.setOutputFormatClass(TextOutputFormat.class);

FileInputFormat.addInputPath(job, new Path(args[0]));
FileOutputFormat.setOutputPath(job, new Path(args[1]));
job.waitForCompletion(true);
}
```