```
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Roll No. :TCOB38
Assignment No. : 11
Subject : DSBDA LAB
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;
import java.io.IOException;
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();
        @Override
        public void map(Object key, Text value, Context context) throws
IOException, InterruptedException {
            String line = value.toString();
            String[] words = line.split("\\s+");
            for (String w : words) {
                word.set(w);
                context.write(word, one);
            }
        }
    }
    public static class IntSumReducer extends Reducer<Text, IntWritable,
Text, IntWritable> {
        private IntWritable result = new IntWritable();
        @Override
        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);
        }
```

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}
    public static void main(String[] args) throws Exception {
        if (args.length != 2) {
            System.err.println("Usage: WordCount <input path> <output</pre>
path>");
            System.exit(-1);
        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);
    }
```

OUTPUT:

```
part-r-00000
  Open
11 For
12 Cibson 1
13 Magazine.
                       1
14 Map 1
15 Project
16 Reduce 1
17 Shadow 2
18 Shadow 2

18 Shadow,

19 Smith 1

20 Smith's

21 Story 1

22 Street 2
                       1
                       1
23 The
24 Walter 1
25 WordCount
                       1
26 a
            4
27 about 1
28 an
29 and
30 be
            1
31 broadcasts
                      1
          2
32 by
33 can
34 contained
35 contains
36 count 1
37 counts 1
38 crime-fighting 1
39 data
40 dated 1
41 different
42 each 1
43 evil
            1
44 example
45 figure 1
                       1
46 files 2
47 files, 1
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