File: WC_Mapper.java

```
package com.javatpoint;
import java.io.IOException;
import java.util.StringTokenizer;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.MapReduceBase;
import org.apache.hadoop.mapred.Mapper;
import org.apache.hadoop.mapred.OutputCollector;
import org.apache.hadoop.mapred.Reporter;
public class WC_Mapper extends MapReduceBase implements
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,OutputCollector<Text,IntWritable> output,
      Reporter reporter) throws IOException{
    String line = value.toString();
    StringTokenizer tokenizer = new StringTokenizer(line);
    while (tokenizer.hasMoreTokens()){
       word.set(tokenizer.nextToken());
       output.collect(word, one);
    }
  }
}
File: WC_Reducer.java
package com.javatpoint;
  import java.io.IOException;
  import java.util.Iterator;
```

import org.apache.hadoop.io.IntWritable;

```
import org.apache.hadoop.io.Text;
  import org.apache.hadoop.mapred.MapReduceBase;
  import org.apache.hadoop.mapred.OutputCollector;
  import org.apache.hadoop.mapred.Reducer;
  import org.apache.hadoop.mapred.Reporter;
  public class WC_Reducer extends MapReduceBase implements
Reducer<Text,IntWritable,Text,IntWritable> {
  public void reduce(Text key, Iterator<IntWritable>
values,OutputCollector<Text,IntWritable> output,
  Reporter reporter) throws IOException {
  int sum=0;
  while (values.hasNext()) {
  sum+=values.next().get();
  output.collect(key,new IntWritable(sum));
}
File: WC_Runner.java
package com.javatpoint;
  import java.io.IOException;
  import org.apache.hadoop.fs.Path;
  import org.apache.hadoop.io.IntWritable;
  import org.apache.hadoop.io.Text;
  import org.apache.hadoop.mapred.FileInputFormat;
  import org.apache.hadoop.mapred.FileOutputFormat;
  import org.apache.hadoop.mapred.JobClient;
```

```
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.TextInputFormat;
import org.apache.hadoop.mapred.TextOutputFormat;
public class WC_Runner {
  public static void main(String[] args) throws IOException{
    JobConf conf = new JobConf(WC_Runner.class);
    conf.setJobName("WordCount");
    conf.setOutputKeyClass(Text.class);
    conf. set Output Value Class (IntWritable.class);\\
    conf.setMapperClass(WC_Mapper.class);
    conf.setCombinerClass(WC_Reducer.class);
    conf.setReducerClass(WC_Reducer.class);
    conf.setInputFormat(TextInputFormat.class);
    conf.setOutputFormat(TextOutputFormat.class);
    FileInputFormat.setInputPaths(conf,new Path(args[0]));
    FileOutputFormat.setOutputPath(conf,new Path(args[1]));
    JobClient.runJob(conf);
  }
}
```

Output:

