Java Code to process logfile Mapper Class:

```
package SalesCountry;
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.mapred.*;
public class SalesMapper extends MapReduceBase implements Mapper<LongWritable, Text, Text,
IntWritable> {
        private final static IntWritable one = new IntWritable(1);
        public void map(LongWritable key, Text value, OutputCollector<Text, IntWritable> output, Reporter
reporter) throws IOException {
                String valueString = value.toString();
                String[] SingleCountryData = valueString.split("-");
                output.collect(new Text(SingleCountryData[0]), one);
        }
Reducer Class:
package SalesCountry;
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.*;
public class SalesCountryReducer extends MapReduceBase implements Reducer<Text, IntWritable, Text,
IntWritable> {
        public void reduce(Text t key, Iterator<IntWritable> values, OutputCollector<Text,IntWritable>
output, Reporter reporter) throws IOException {
                Text key = t key;
                int frequencyForCountry = 0;
                while (values.hasNext()) {
                         // replace type of value with the actual type of our value
                         IntWritable value = (IntWritable) values.next();
                         frequencyForCountry += value.get();
```

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}
                 output.collect(key, new IntWritable(frequencyForCountry));
        }
Driver Class:
package SalesCountry;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
public class SalesCountryDriver {
        public static void main(String[] args) {
                 JobClient my client = new JobClient();
                 // Create a configuration object for the job
                 JobConf job conf = new JobConf(SalesCountryDriver.class);
                 // Set a name of the Job
                 job_conf.setJobName("SalePerCountry");
                 // Specify data type of output key and value
                 job conf.setOutputKeyClass(Text.class);
                 job conf.setOutputValueClass(IntWritable.class);
                 // Specify names of Mapper and Reducer Class
                 job conf.setMapperClass(SalesCountry.SalesMapper.class);
                 job conf.setReducerClass(SalesCountry.SalesCountryReducer.class);
                 // Specify formats of the data type of Input and output
                 job conf.setInputFormat(TextInputFormat.class);
                 job conf.setOutputFormat(TextOutputFormat.class);
                 // Set input and output directories using command line arguments,
                 //arg[0] = name of input directory on HDFS, and arg[1] = name of output directory to be
created to store the output file.
                 FileInputFormat.setInputPaths(job conf, new Path(args[0]));
                 FileOutputFormat.setOutputPath(job_conf, new Path(args[1]));
                 my client.setConf(job conf);
                 try {
                         // Run the job
                         JobClient.runJob(job conf);
                 } catch (Exception e) {
                         e.printStackTrace();
```

```
}
}
```

Input File

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