Driver Class

```
package sparkAssignmentMRRate;

import java.io.*;

import org.apache.hadoop.mapred.TextOutputFormat;
import org.apache.hadoop.mapred.lib.MultipleOutputs;
import org.apache.hadoop.fs.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.util.*;
import org.apache.hadoop.conf.*;



public class fetchDriverRatecodeID extends Configured implements Tool{


	public static void main(String[] args) throws Exception {
		int returnStatus = ToolRunner.run(new Configuration(), new 
fetchDriverRatecodeID(), args);
		System.exit(returnStatus);
	}


	public int run(String[] args) throws IOException{

		Job job = new Job(getConf());

		job.setJobName("Fetch Record");

		job.setJarByClass(fetchDriverRatecodeID.class);

		//job.setOutputKeyClass(Text.class);
		//job.setOutputValueClass(Text.class);

		job.setOutputKeyClass(Text.class);
		job.setOutputValueClass(Text.class);
		//job.setOutputFormatClass(TextOutputFormat.class);

		job.setMapperClass(fetchDriverRatecodeIDMapper.class);
		//job.setCombinerClass(fetchDriverReducer.class);
		//job.setReducerClass(fetchDriverReducer.class);
		FileInputFormat.addInputPath(job, new Path(args[0]));
		FileOutputFormat.setOutputPath(job,new Path(args[1]));

		try {
			return job.waitForCompletion(true) ? 0 : 1;
			} catch (ClassNotFoundException e) {
				// TODO Auto-generated catch block
				e.printStackTrace();
			} catch (InterruptedException e) {
				// TODO Auto-generated catch block
				e.printStackTrace();
			}
			return 0;
		}

}
```

Mapper Class

```
package sparkAssignmentMRRate;


import java.io.BufferedReader;
import java.io.IOException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.HashMap;
import java.util.Iterator;
import org.apache.hadoop.filecache.DistributedCache;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.NullWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;


public class fetchDriverRatecodeIDMapper extends
Mapper<Object, Text, Text, Text> {

		@SuppressWarnings("unused")
		@Override

		public void map(Object key, Text value, Context context) throws IOException,
InterruptedException
		{


			String st [] = value.toString().trim().split(",");

			if (st.length == 17)

			{
				String VendorID = st[0];
```

```
                              String tpep_pickup_datetime = st[1];
                              String tpep_dropoff_datetime = st[2];
                              String passenger_count= st[3];
                              String trip_distance= st[4];
                              String RatecodeID= st[5];
                              String store_and_fwd_flag= st[6];
                              String PULocationID= st[7];
                              String DOLocationID= st[8];
                              String payment_type= st[9];
                              String fare_amount= st[10];
                              String extra= st[11];
                              String mta_tax= st[12];
                              String tip_amount= st[13];
                              String tolls_amount= st[14];
                              String improvement_surcharge= st[15];
                              String total_amount= st[16];

                              //int VendorIDInt = Integer.parseInt(VendorID);

                              if(RatecodeID.equals("4")
                                          )
                              {

                                    context.write(new Text(RatecodeID), new Text(VendorID + " "
+tpep_pickup_datetime + " " + payment_type +" "+ tpep_dropoff_datetime +" "+ passenger_count +
" "+
                                                trip_distance + " "+RatecodeID + "
"+store_and_fwd_flag + " "+PULocationID + " "+DOLocationID + " "+payment_type + "
"+fare_amount +" "+ extra
                                                + " "+mta_tax + " "+tip_amount + " "+tolls_amount
+ " "+improvement_surcharge + " "+total_amount));

                              }
                        }
            }
}
```