**Problem Statement :**

* Find the number of medals India won year wise

**Mapper code:**

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.commons.logging.\*;  
import org.apache.hadoop.mapreduce.Mapper;

@SuppressWarnings("unused")

public class MyMapper extends Mapper <LongWritable, Text, Text, IntWritable>   
 {

public final static IntWritable one =new IntWritable(1);  
 public void map (LongWritable offset, Text value, Context context) throws  
 IOException, InterruptedException  
 {  
 String currentline=value.toString();  
 String SportData[]=currentline.split("\t");  
 String Year = (SportData[3]);  
 String Country = SportData[2];  
 System.out.println(Country);  
 if (Country.equals("India"))

{  
 context.write(new Text(Year),new IntWritable(1));  
 }  
 }  
 }

**MyReducer Code :**

import java.io.IOException;  
import org.apache.hadoop.io.IntWritable;  
import org.apache.hadoop.io.Text;  
import org.apache.hadoop.mapreduce.Reducer;

public class MyReducer extends Reducer<Text,IntWritable,Text,IntWritable>  
 {  
 @Override  
 public void reduce(Text Year ,Iterable<IntWritable> value, Context context) throws IOException, InterruptedException  
 {  
 int sum=0;  
 for(IntWritable year:value)  
 {  
 System.out.println(" India Detils " +year.get());  
 sum= sum+year.get();  
 }  
 context.write(Year, new IntWritable(sum));

}

}

**CountryDriver:**

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.lib.input.FileInputFormat;  
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

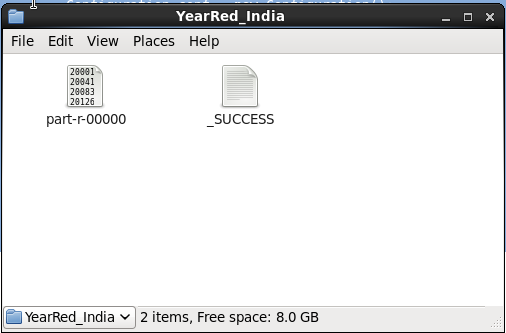
public class YearDriver {

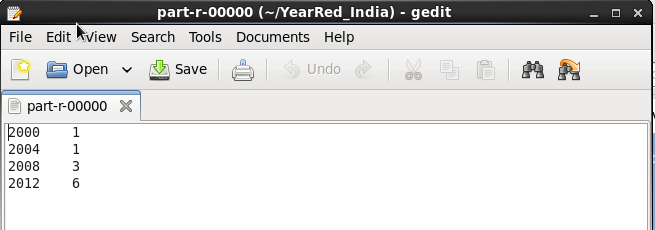
public static void main(String[] args) throws Exception  
 {  
 Configuration conf = new Configuration();  
 @SuppressWarnings("deprecation")  
 Job job = new Job(conf, "India Medals");  
 job.setJarByClass(YearDriver.class);  
 job.setMapperClass(MyMapper.class);  
 job.setReducerClass(MyReducer.class);  
 //job.setNumReduceTasks(0);  
 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 :**

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