## MAPPER CLASS

package Asign5;  
import java.io.IOException;  
import org.apache.hadoop.mapreduce.Mapper;  
import org.apache.hadoop.io.Text;  
import org.apache.hadoop.io.IntWritable;  
import org.apache.hadoop.io.LongWritable;  
  
public class String\_Demo extends Mapper<LongWritable, Text, Text, IntWritable>{  
public void map(LongWritable key, Text value, Context context)   
    throws IOException, InterruptedException{  
    int one=1;  
    String values[] = value.toString().split(" ");  
    for(int i=0; i<values.length; i++)  
    {  
        if(values[i].equalsIgnoreCase(","))  
        values[i]=" ";  
        if(values[i].equalsIgnoreCase("Hadoop"))  
        context.write(new Text(values[i]),new IntWritable(one));  
    }  
  }  
}

## REDUCER CLASS

package Asign5;  
import java.io.IOException;  
import org.apache.hadoop.io.Text;  
import org.apache.hadoop.io.IntWritable;  
import org.apache.hadoop.mapreduce.Reducer;  
  
public class String\_Demo\_Reducer extends Reducer<Text, IntWritable, Text, IntWritable>{  
 public void reduce(Text key, Iterable<IntWritable>value, Context context)  
     throws IOException, InterruptedException  
 {  
     int sum =0;  
     for(IntWritable values : value){  
         {  
             sum=sum+values.get();  
         }  
     }  
   context.write(key, new IntWritable(sum));  
 }  
}  
  
  
  
  
  
  
DRIVER CLASS

package Asign5;  
import org.apache.hadoop.mapreduce.lib.input.TextInputFormat;  
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;  
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;  
import org.apache.hadoop.conf.Configuration;  
import org.apache.hadoop.conf.Configured;  
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.util.Tool;  
import org.apache.hadoop.util.ToolRunner;  
  
public class String\_Demo\_Driver extends Configured implements Tool{  
  
    public static void main(String[] abhi) throws Exception{  
        ToolRunner.run(new Configuration(), new String\_Demo\_Driver(), abhi);  
    }  
    @Override  
    public int run(String[] abhi) throws Exception {  
        Job job = Job.getInstance();  
        job.setJobName("Abhinav Assignment 5");  
        job.setJarByClass(String\_Demo\_Driver.class);  
          
        job.setMapperClass(String\_Demo.class);  
        job.setMapOutputKeyClass(Text.class);  
        job.setMapOutputValueClass(IntWritable.class);  
          
        job.setReducerClass(String\_Demo\_Reducer.class);  
        job.setOutputKeyClass(Text.class);  
        job.setOutputValueClass(IntWritable.class);  
          
        job.setInputFormatClass(TextInputFormat.class);  
        FileInputFormat.addInputPath(job, new Path(abhi[0]));  
        FileOutputFormat.setOutputPath(job, new Path(abhi[1]));  
      
        job.waitForCompletion(true);  
        return 0;  
    }  
     
}