Differnce:
Worcount and Logcount

My_Mapper:

My_Mapper.java × My_Reducer.java Driver.java

```java
package wordcountss;

import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;

import java.io.IOException;
import java.util.StringTokenizer;

public class My_Mapper extends Mapper<Object,Text, Text, IntWritable> {
    private final static IntWritable one = new IntWritable(1);
    private Text word = new Text();

    public void map(Object key, Text value, Context context) throws IOException, InterruptedException {
        StringTokenizer tokenizer = new StringTokenizer(value.toString());
        while(tokenizer.hasMoreTokens())
        {
            word.set(tokenizer.nextToken());
            context.write(word,one);
        }

    }
}
```

My_Mapper.java × My_Reducer.java Driver.java

```java
package log;

import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import java.io.IOException;
import java.util.StringTokenizer;

public class My_Mapper extends Mapper<Object,Text, Text, IntWritable> {
    private final static IntWritable one = new IntWritable(1);
    private Text ipAddress = new Text();

    public void map(Object key, Text value, Context context) throws IOException, InterruptedException {
        StringTokenizer itr = new StringTokenizer(value.toString(), " ");

                ipAddress.set(itr.nextToken());
                context.write(ipAddress,one);

    }
}
```

My_Reducer:

My_Mapper.java | My_Reducer.java | Driver.java

```java
package wordcountss;

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

import java.io.IOException;

public class My_Reducer extends Reducer<Text, IntWritable, Text, IntWritable> {

    public void reduce(Text word, Iterable<IntWritable> values,Context context) throws IOException, InterruptedException {
        int sum = 0;
        for (IntWritable value : values) {
            sum += value.get();
        }
        context.write(word, new IntWritable(sum));

    }
}
```

```java
package log;

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

import java.io.IOException;

public class My_Reducer extends Reducer<Text, IntWritable, Text, IntWritable> {
    private Text maxWord = new Text();
    private int maxCount = 0;

    public void reduce(Text word, Iterable<IntWritable> values,Context context) throws IOException, InterruptedException {
        int sum = 0;
        for (IntWritable value : values) {
            sum += value.get();
        }

        if (sum > maxCount) {
            maxCount = sum;
            maxWord.set(word);
        }
    }

    protected void cleanup(Context context) throws IOException, InterruptedException {
        context.write(maxWord, new IntWritable(maxCount));
    }
}
```

Driver:

```java
package wordcountss;

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

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

import java.lang.InterruptedException;
import java.lang.ClassNotFoundException;

public class Driver{
    public static void main(String[] args) throws IOException ,InterruptedException, ClassNotFoundException {

        Configuration conf = new Configuration();
        Job job = Job.getInstance(conf,"wordcountss");

        job.setJarByClass(Driver.class);
        job.setMapperClass(My_Mapper.class);
        job.setReducerClass(My_Reducer.class);


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

        FileInputFormat.addInputPath(job, new Path(args[0]));
        FileOutputFormat.setOutputPath(job, new Path(args[1]));

        job.waitForCompletion(true);

    }
}
```

```java
package log;

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

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

public class Driver{
    public static void main(String[] args) throws IOException ,InterruptedException, ClassNotFoundException {

        Configuration conf = new Configuration();
        Job job = Job.getInstance(conf,"Log");

        job.setJarByClass(Driver.class);
        job.setMapperClass(My_Mapper.class);
        job.setReducerClass(My_Reducer.class);

        job.setMapOutputKeyClass(Text.class);
        job.setMapOutputValueClass(IntWritable.class);

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

        FileInputFormat.addInputPath(job, new Path(args[0]));
        FileOutputFormat.setOutputPath(job, new Path(args[1]));

        job.waitForCompletion(true);

    }
}
```