

## word Count

```
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.input.TextInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.mapreduce.lib.output.TextOutputFormat;
import org.apache.hadoop.io.NullWritable;
import org.apache.hadoop.io.Text;

public class WordCount {
    @SuppressWarnings("deprecation")
    public static void main(String[] args) throws Exception {
        Configuration conf = new Configuration();
        Job job = new Job(conf, "WordcountJob");
        job.setJarByClass(WordCount.class);

        job.setOutputKeyClass(NullWritable.class);
        job.setOutputValueClass(Text.class);
        job.setMapperClass(WordMapper.class);
        job.setNumReduceTasks(0);

        job.setInputFormatClass(TextInputFormat.class);
        job.setOutputFormatClass(TextOutputFormat.class);

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

        job.waitForCompletion(true);
    }
}
```

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## Mapper

```
import java.io.IOException;

import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.NullWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.*;

public class WordMapper extends Mapper<LongWritable, Text,
NullWritable, Text> {
    public void map(LongWritable key, Text value, Context context)
        throws IOException, InterruptedException {
        String[] lineArray = value.toString().split("\\\\|");
        if((lineArray.length > 0) &&
            (lineArray[0] != null) &&
            (lineArray[1] != null) &&
            (! lineArray[0].equalsIgnoreCase("NA")) &&
            (! lineArray[1].equalsIgnoreCase("NA"))
        ) {
```

```

        context.write(NullWritable.get(), value);
    }
}

```

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## Reducer

```

import java.io.IOException;

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

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

    @Override
    public void reduce(Text key, Iterable<IntWritable> values,
        Context context)
        throws IOException, InterruptedException {
        System.out.println("From The Reducer=>" + key) ;

        int sum = 0;
        for (IntWritable value : values) {
            sum += value.get();
        }
        context.write(key, new IntWritable(sum));
    }
}

```