LARGE SCALE DATA PROCESSING (CSE 3025) WIN SEMESTER 2017

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LAB-2

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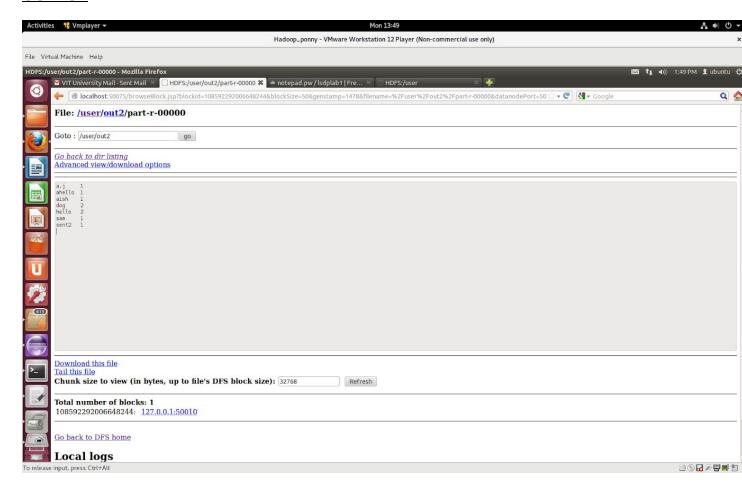
MAPREDUCE

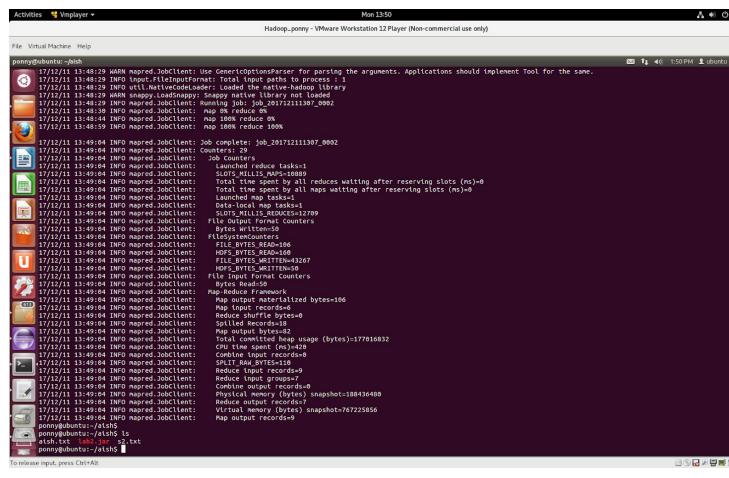
CODE:

```
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapreduce.*;
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;
public class WordCount {
       public static class Map extends Mapper< LongWritable, Text, IntWritable>
        private final static IntWritable one = new IntWritable(1);
        private Text word = new Text();
       public void map(LongWritable key, Text value, Context context) throws
        IOException, InterruptedException
        String line = value.toString();
        StringTokenizer tokenizer = new StringTokenizer(line);
        while (tokenizer.hasMoreTokens()) {
        word.set(tokenizer.nextToken());
       context.write(word, one);
       }
```

```
public static class Reduce extends Reducer<Text, IntWritable, Text,
        IntWritable>
        public void reduce(Text key, Iterable<IntWritable> values, Context
        throws IOException, InterruptedException {
        int sum = 0;
        for(IntWritable val:values)
        sum += val.get();
        context.write(key, new IntWritable(sum));
        public static void main(String[] args) throws Exception {
        Configuration conf = new Configuration();
        Job job = new Job(conf, "wordcount");
        job.setJarByClass(WordCount.class);
        job.setOutputKeyClass(Text.class);
        job.setOutputValueClass(IntWritable.class);
        job.setMapperClass(Map.class);
        job.setReducerClass(Reduce.class);
       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);
}
```

OUTPUT





To release input, press Ctrl+Alt