***WordCount Using MRV1:***

***Mappercode:***

***package com.demo.wc;***

***import java.io.IOException;***

***import org.apache.hadoop.io.IntWritable;***

***import org.apache.hadoop.io.LongWritable;***

***import org.apache.hadoop.io.Text;***

***import org.apache.hadoop.mapreduce.Mapper;***

***public class WC2Mapper extends Mapper<LongWritable, Text, Text, IntWritable> {***

***@Override***

***public void map(LongWritable key, Text value, Context context)***

***throws IOException, InterruptedException {***

***String line = value.toString();***

***for (String word : line.split("\\W+")) {***

***if (word.length() > 0) {***

***context.write(new Text(word), new IntWritable(1));***

***}***

***}***

***}***

***}***

***Reducercode:***

***package com.demo.wc;***

***import java.io.IOException;***

***import org.apache.hadoop.io.IntWritable;***

***import org.apache.hadoop.io.Text;***

***import org.apache.hadoop.mapreduce.Reducer;***

***public class WC2Reducer extends Reducer<Text, IntWritable, Text, IntWritable> {***

***@Override***

***public void reduce(Text key, Iterable<IntWritable> values, Context context)***

***throws IOException, InterruptedException {***

***int wordCount = 0;***

***for (IntWritable value : values) {***

***wordCount += value.get();***

***}***

***context.write(key, new IntWritable(wordCount));***

***}***

***}***

***DriverCode:***

***package com.demo.wc;***

***import org.apache.hadoop.fs.Path;***

***import org.apache.hadoop.io.IntWritable;***

***import org.apache.hadoop.io.Text;***

***import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;***

***import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;***

***import org.apache.hadoop.mapreduce.Job;***

***public class WC2Driver {***

***public static void main(String[] args) throws Exception {***

***if (args.length != 2) {***

***System.out.printf(***

***"Usage: WordCount <input dir> <output dir>\n");***

***System.exit(-1);***

***}***

***Job job = new Job();***

***job.setJarByClass(WC2Driver.class);***

***job.setJobName("Word Count");***

***FileInputFormat.setInputPaths(job, new Path(args[0]));***

***FileOutputFormat.setOutputPath(job, new Path(args[1]));***

***job.setMapperClass(WC2Mapper.class);***

***job.setReducerClass(WC2Reducer.class);***

***job.setOutputKeyClass(Text.class);***

***job.setOutputValueClass(IntWritable.class);***

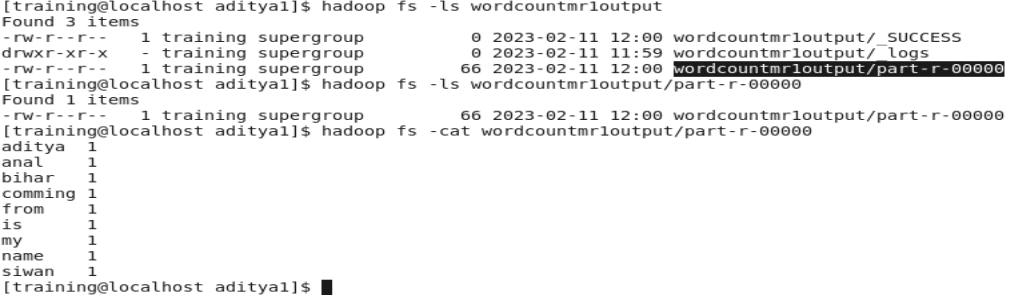
***boolean success = job.waitForCompletion(true);***

***System.exit(success ? 0 : 1);***

***}***

***}***

***Output:***

******