Driver Program

import java.io.IOException;

// file system

import org.apache.hadoop.fs.FileSystem;

import org.apache.hadoop.fs.Path;

// box classes import

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.Text;

// mapreduce imports

import org.apache.hadoop.mapreduce.Job;

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

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

public class MyDriver {

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

Job j = new Job();

j.setJobName("freq counter");

j.setJarByClass(Driver.class);

j.setMapperClass(MyMapper.class);

j.setReducerClass(MyReducer.class);

j.setOutputKeyClass(Text.class);

j.setOutputValueClass(IntWritable.class);

FileInputFormat.addInputPath(j, new Path(args[0]));

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

System.exit(j.waitForCompletion(true) ? 0 : 1);

}

}

Reducer Program

// exceptions import

import java.io.IOException;

// import box classes

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.Text;

// import reducer class

import org.apache.hadoop.mapreduce.Reducer;

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

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

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

throws IOException, InterruptedException {

int y = 0;

for (IntWritable x : values) {

y += 1;

}

context.write(key, new IntWritable(y));

}

}

Mapper Program

// exception handling

import java.io.IOException;

// box classes import

import org.apache.hadoop.io.DoubleWritable;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

// import mapper class

import org.apache.hadoop.mapreduce.Mapper;

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

public class MyMapper extends Mapper<LongWritable, Text, Text, IntWritable> {

public void map(LongWritable key, Text value, Context context) throws IOException, InterruptedException {

String inputstring = value.toString();

for (String x : inputstring.split(" ")) {

if (x.equals("Apple") || x.equals("Banana") || x.equals("Grapes")) {

context.write(new Text(x), new IntWritable(1));

}

}

}

}