**WC\_Mapper.java**

package com.javatpoint;

import java.io.IOException;

import java.util.StringTokenizer;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapred.MapReduceBase;

import org.apache.hadoop.mapred.Mapper;

import org.apache.hadoop.mapred.OutputCollector;

import org.apache.hadoop.mapred.Reporter;

public class WC\_Mapper extends MapReduceBase implements Mapper<LongWritable,Text,Text,IntWritable>{

private final static IntWritable one = new IntWritable(1);

private Text word = new Text();

public void map(LongWritable key, Text value,OutputCollector<Text,IntWritable> output,

Reporter reporter) throws IOException{

String line = value.toString();

StringTokenizer tokenizer = new StringTokenizer(line);

while (tokenizer.hasMoreTokens()){

word.set(tokenizer.nextToken());

output.collect(word, one);

}

}

}

**WC\_Reducer.java**

package com.javatpoint;

import java.io.IOException;

import java.util.Iterator;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapred.MapReduceBase;

import org.apache.hadoop.mapred.OutputCollector;

import org.apache.hadoop.mapred.Reducer;

import org.apache.hadoop.mapred.Reporter;

public class WC\_Reducer extends MapReduceBase implements Reducer<Text,IntWritable,Text,IntWritable> {

public void reduce(Text key, Iterator<IntWritable> values,OutputCollector<Text,IntWritable> output,

Reporter reporter) throws IOException {

int sum=0;

while (values.hasNext()) {

sum+=values.next().get();

}

output.collect(key,new IntWritable(sum));

}

}

**WC\_Runner.java**

package com.javatpoint;

import java.io.IOException;

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapred.FileInputFormat;

import org.apache.hadoop.mapred.FileOutputFormat;

import org.apache.hadoop.mapred.JobClient;

import org.apache.hadoop.mapred.JobConf;

import org.apache.hadoop.mapred.TextInputFormat;

import org.apache.hadoop.mapred.TextOutputFormat;

public class WC\_Runner {

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

JobConf conf = new JobConf(WC\_Runner.class);

conf.setJobName("WordCount");

conf.setOutputKeyClass(Text.class);

conf.setOutputValueClass(IntWritable.class);

conf.setMapperClass(WC\_Mapper.class);

conf.setCombinerClass(WC\_Reducer.class);

conf.setReducerClass(WC\_Reducer.class);

conf.setInputFormat(TextInputFormat.class);

conf.setOutputFormat(TextOutputFormat.class);

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

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

JobClient.runJob(conf);

}

}