**Code:**

**package** com.venkat.mapreduce;

**import** java.io.IOException;

**import** org.apache.hadoop.conf.Configuration;

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

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

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

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

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

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

**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** HotAndColdDays {

**public** **static** **class** HotAndColdDaysMapper **extends** Mapper<LongWritable, Text, IntWritable, Text>

{

**private** IntWritable date = **new** IntWritable();

**private** **float** minTemp;

**private** **float** maxTemp;

**private** Text hotDay = **new** Text("Hot Day");

**private** Text coldDay = **new** Text("Cold Day");

**private** String record;

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

{

record = value.toString();

**if**(record.length() == 216)

{

date.set(Integer.*parseInt*(record.substring(6, 14).trim()));

maxTemp = Float.*parseFloat*(record.substring(38, 44).trim());

minTemp = Float.*parseFloat*(record.substring(46, 52).trim());

**if**(maxTemp > 40F)

{

context.write(date, hotDay);

}

**else** **if**(minTemp < 10)

{

context.write(date, coldDay);

}

}

}

}

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

Configuration conf = **new** Configuration();

Job job = **new** ~~Job~~(conf, "Hot and Cold Days");

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

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

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

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

job.setInputFormatClass(TextInputFormat.**class**);

job.setOutputFormatClass(TextOutputFormat.**class**);

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

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

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

}

}

**Output File:**



**Output File Content:**

20130101 Cold Day

20130102 Cold Day

20130103 Cold Day

20130105 Hot Day

20130106 Cold Day

20130107 Cold Day

20130108 Cold Day

20130109 Cold Day

20130110 Cold Day

20130111 Cold Day

20130112 Cold Day

20130113 Cold Day

20130114 Cold Day

20130115 Cold Day

20130116 Cold Day

20130117 Cold Day

20130118 Cold Day

20130119 Cold Day

20130120 Cold Day

20130121 Cold Day

20130122 Cold Day

20130123 Cold Day

20130124 Cold Day

20130125 Cold Day

20130126 Cold Day

20130127 Cold Day

20130128 Cold Day

20130129 Cold Day

20130130 Cold Day

20130131 Cold Day

20130201 Cold Day

20130202 Cold Day

20130203 Cold Day

20130204 Cold Day

20130205 Cold Day

20130206 Cold Day

20130207 Cold Day

20130208 Cold Day

20130209 Cold Day

20130210 Cold Day

20130211 Cold Day

20130212 Cold Day

20130213 Cold Day

20130214 Cold Day

20130215 Cold Day

20130216 Cold Day

20130217 Cold Day

20130218 Cold Day

20130219 Cold Day

20130220 Cold Day

20130221 Cold Day

20130222 Cold Day

20130223 Cold Day

20130224 Cold Day

20130225 Cold Day

20130226 Cold Day

20130227 Cold Day

20130228 Cold Day

20130301 Cold Day

20130302 Cold Day

20130303 Cold Day

20130304 Cold Day

20130305 Cold Day

20130306 Cold Day

20130307 Cold Day

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20130330 Cold Day

20130331 Cold Day

20130401 Cold Day

20130402 Cold Day

20130403 Cold Day

20130404 Cold Day

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20130406 Cold Day

20130407 Cold Day

20130408 Cold Day

20130409 Cold Day

20130410 Cold Day

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20130428 Cold Day

20130429 Cold Day

20130430 Cold Day

20130501 Cold Day

20130502 Cold Day

20130503 Cold Day

20130504 Cold Day

20130505 Cold Day

20130506 Cold Day

20130507 Cold Day

20130508 Cold Day

20130509 Cold Day

20130510 Cold Day

20130511 Cold Day

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