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```
Process.java
package com.mapreduce.lf;
import java.io.IOException;
import java.util.StringTokenizer;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
public class Process{
 public static class IPMapper
    extends Mapper<Object, Text, Text, IntWritable>{
  private final static IntWritable one = new IntWritable(1);
  private Text ip = new Text();
  public void map(Object key, Text value, Context context
```

```
) throws IOException, InterruptedException {
  // Assuming the IP address is the first token in each line
  StringTokenizer itr = new StringTokenizer(value.toString());
  if (itr.hasMoreTokens()) {
   ip.set(itr.nextToken());
   context.write(ip, one);
public static class IntSumReducer
   extends Reducer<Text,IntWritable,Text,IntWritable> {
 private IntWritable result = new IntWritable();
 public void reduce(Text key, Iterable<IntWritable> values,
             Context context
            ) throws IOException, InterruptedException {
  int sum = 0;
  for (IntWritable val : values) {
   sum += val.get();
  result.set(sum);
  context.write(key, result);
```

```
public static void main(String[] args) throws Exception {
   Configuration conf = new Configuration();
   Job job = Job.getInstance(conf, "IP address count");
   job.setJarByClass(Process.class);
   job.setMapperClass(IPMapper.class);
   job.setCombinerClass(IntSumReducer.class);
   job.setReducerClass(IntSumReducer.class);
   job.setOutputKeyClass(Text.class);
   job.setOutputValueClass(IntWritable.class);
   FileInputFormat.addInputPath(job, new Path(args[0]));
   FileOutputFormat.setOutputPath(job, new Path(args[1]));
   System.exit(job.waitForCompletion(true) ? 0 : 1);
}
```

OUTPUTS:

```
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.
C:\Windows\System32>start-all.cmd
This script is Deprecated. Instead use start-dfs.cmd and start-yarn.cmd
starting yarn daemons
C:\Windows\System32>jps
17092 DataNode
18628 ResourceManager
23428 org.eclipse.equinox.launcher_1.3.200.v20160318-1642.jar
3012 NameNode
18216 NodeManager
24876 Jps
C:\Windows\System32>hadoop fs -rm -r /input
Deleted /input
C:\Windows\System32>hadoop fs -mkdir /InputLog
 C:\Windows\System32>hadoop fs -put C:\Users\PC\Documents\Log\InputLog.txt /InputDir
C:\Windows\System32>hadoop fs -rm -r /InputDir
Deleted /InputDir
C:\Windows\System32>hadoop fs -mkdir /InputDir
C:\Windows\System32>hadoop fs -put C:\Users\PC\Documents\Log\InputLog.txt /InputDir
C:\Windows\System32>hadoop fs -ls /InputDir
                                            145670 2025-04-06 12:38 /InputDir/InputLog.txt
C:\Windows\System32>hadoop jar C:\Users\PC\Documents\JARFILES\Process.jar com.mapreduce.lf/Process /InputDir/InputLog.txt /OutputDir
2025-04-06 12:42:08,245 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
2025-04-06 12:42:10,086 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and
ecute your application with ToolRunner to remedy this.
2025-04-06 12:42:10,112 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/PC/.staging/job_174392281
```

```
C:\Windows\System32>hadoop dfs -cat /OutputDir/*
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
10.1.1.236 7
10.1.181.142
                           14
10.1.232.31
10.10.55.142
10.102.101.66
10.103.184.104
10.103.190.81
10.103.63.29
10.104.73.51
10.105.160.183
10.108.91.151
10.109.21.76
10.11.131.40
10.111.71.20
10.111.71.20
10.112.227.184
10.114.74.30
10.115.118.78
10.117.224.230
10.117.76.22
10.118.19.97
10.118.250.30
10.119.117.132
10.119.33.245
10.119.74.120
10.12.113.198
10.12.219.30
10.120.165.113
10.120.207.127
10.123.124.47
10.123.35.235
10.124.148.99
10.124.155.234
10.126.161.13
10.127.162.239
```

```
Administrator; Command Prompt

10.82.30.199 63
10.82.64.235 1
10.84.236.242 1
10.87.209.46 1
10.87.88.214 1
10.87.88.214 1
10.88.204.177 1
10.89.178.62 1
10.89.178.62 1
10.99.178.62 1
10.99.18.62 1
10.99.218.21 4
10.99.228.28 1
10.99.28.28 1
10.99.28.28 1
10.99.228.224 1

C:\Windows\System32>hdfs dfs -get /OutputDir/part-r-00000 C:\Users\PC\Documents\OutputDir\OutputLog.txt
```









