BIG DATA EXP

```
import java.io.IOException;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
import org.apache.hadoop.util.*;

public class WordCount {

   public static class Map 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)
      StringTokenizer tokenizer = new StringTokenizer(line);
      while (tokenizer.hasMoreTokens()) {
            word.set(tokenizer.nextToken());
            output.collect(word, one);
      }
}
```

```
public static class Reduce extends MapReduceBase implements Reducer<Text, IntWritable, Text, IntWritable> {
    public void reduce(Text key, Iterator<IntWritable> values, OutputCollector<Text, IntWritable> output, Repor
    int sum = 0;
    while (values.hasNext()) {
        sum += values.next().get();
    }
        output.collect(key, new IntWritable(sum));
}

public static void main(String[] args) throws Exception {
        JobConf conf = new JobConf(WordCount.class);
        conf.setJobName("wordcount");

        conf.setOutputKeyClass(Text.class);
        conf.setOutputKeyClass(IntWritable.class);

        conf.setMapperClass(Map.class);
        conf.setCombinerClass(Reduce.class);

        conf.setTnputFormat(TextInputFormat.class);
        conf.setInputFormat(TextInputFormat.class);
        conf.setOutputFormat(TextInputFormat.class);
        conf.setOutputFormat(TextOutputFormat.class);
}
```

1

cd \$HADOOP_HOME

cd sbin

jps

start-all.sh

```
hdoop admin1-HP-280-G4-MT-Business-PC —/hadoop-3.2.1 cd sbin

hdoop admin1-HP-280-G4-MT-Business-PC —/hadoop-3.2.1/sbin jps

4144 NameNode

4721 ResourceManager
12932 org.eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
4533 SecondaryNameNode
13334 Jps

4877 NodeManager
4287 DataNode

hdoop admin1-HP-280-G4-MT-Business-PC —/hadoop-3.2.1/sbin start-all.sh

hdoop admin1-HP-280-G4-MT-Business-PC —/hadoop-3.2.1/sbin start-all.sh

ARRNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.

WARNING: This is not a recommended production deployment configuration.

WARNING: Use CTRL-C to abort.

Starting namenodes on [localhost]

Localhost: namenode is running as process 4144. Stop it first.

Starting datanodes

Localhost: datanode is running as process 4287. Stop it first.

Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]

admin1-HP-280-G4-MT-Business-PC: secondarynamenode is running as process 4533. Stop it first.

Starting resourcemanager
```

hdfs dfs-mkdir-p~/input hdfs dfs-appendToFile-~/input/txt.txt This is me this is you this is all we need

```
hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
localhost: namenode is running as process 4144. Stop it first.
Starting datanodes
localhost: datanode is running as process 4287. Stop it first.
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]
admin1-HP-280-G4-MT-Business-PC: secondarynamenode is running as process 4533. Stop it first.
Starting resourcemanager
resourcemanager is running as process 4721. Stop it first.
Starting nodemanagers
localhost: nodemanagers
localhost: nodemanager is running as process 4877. Stop it first.

hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin hdfs dfs -mkdir -p ~/input
hdoop admin1-HP-280-G4-MT-Business-PC -/hadoop-3.2.1/sbin hdfs dfs -appendToFile - ~/input/test.txt
this is you this me this all we need 2022-66-18 12:33:39,665 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localH
ostTrusted = false, remoteHostTrusted = false
```

