

Ex:No:9 WRITE A WORDCOUNT PROGRAM TO DEMONSTRATE THE USE OF MAP AND REDUCE TASKS

AIM:

To write a word count program to demonstrate the use of Map and Reduce tasks.

PROCEDURE

Step 1: Prerequisites

You must have running hadoop setup on your system.

Step 2: Copy Files to Namenode Filesystem

After successfully formatting namenode, You must have start all Hadoop services properly. Now create a directory in hadoop filesystem.

```
$ hdfs dfs -mkdir -p /user/hadoop/input
```

Copy some text file to hadoop filesystem inside input directory. Here I am copying LICENSE.txt to it. You can copy more than one files.

```
$ hdfs dfs -put LICENSE.txt /user/hadoop/input/
```

Step 3: Running Wordcount Command

Now run the wordcount mapreduce example using following command. Below command will read all files from input folder and process with mapreduce jar file. After successful completion of task results will be placed on output directory.

```
$ cd $HADOOP_HOME
```

```
$ hadoop jar share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.0.jar wordcount input output
```

Step 4: Show Results

First check the names of result file created under dfs@/user/hadoop/output filesystem using following command.

```
$ hdfs dfs -ls /user/hadoop/output
```

Now show the content of result file where you will see the result of wordcount. You will see the count of each word.

```
$ hdfs dfs -cat /user/hadoop/output/part-r-00000
```

Sample Output:

```
hadoop@localhost:~/hadoop
File Edit View Search Terminal Help
[hadoop@localhost hadoop]$ hdfs dfs -cat /user/hadoop/output/part-r-00000
16/08/23 21:45:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
(http://www.apache.org/).      1
Apache 1
Foundation      1
Software      1
The      1
This      1
by      1
developed      1
includes      1
product 1
software      1
[hadoop@localhost hadoop]$
```

RESULT:

Thus the demonstration of map and reduce program on word count program was implemented and executed and output was executed successfully.