



# **Experiment No. 2.1**

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Branch: MCA - CCD Section/Group: MCD-1/ Grp A

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Subject Name: Big Data Analytics Subject Code: 22CAP-782

### 1. Aim/Overview of the practical:

Word Count Map Reduce program to understand Map Reduce Paradigm

## 2. Code for practical:

- Open terminal in Ubuntu and create a wordcount.java file.
- Add map reduce code in java file.
- Make a directory and put an input.txt file in it using

### hdfs dfs -put /wordcount/input.txt /wordcount/Input

Make class files using command

# javac -classpath \${HADOOP\_CLASSPATH} -d '/home/hadoop/wordCount/files' '/home/hadoop/wordCount/WordCount.java'

• Make jar from class files

### jar -cvf wordCount.jar -C files/.

• Run Jar file to run map reduce program

### hadoop jar /home/hadoop/wordCount/wordCount.jar WordCount /wordCount/Input /wordCount/Output

```
hadoop@ubuntu: $ hadoop | ar /hone/hadoop/wordCount/wordCount/wordCount/nput /wordCount/Output
2024-03-05 00:28:19,461 INFO client.DefaultNoHARNFalloverProxyProxider: Connecting to ResourceManager at /0.0.0.0:8032
2024-03-05 00:28:21,027 MARN mapreduce.JobResourceUploader: Bidoop command-line option parsing not performed. Implement the Tool interface and execute your application
2024-03-05 00:28:21,282 INFO input.FileInputFormat: Total input files to process : 1
2024-03-05 00:28:21,282 INFO input.FileInputFormat: Total input files to process : 1
2024-03-05 00:28:21,282 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1709574769693_0002
2024-03-05 00:28:22,283 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-03-05 00:28:22,575 INFO conf.Configuration: resource_types.xml not found
2024-03-05 00:28:22,575 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2024-03-05 00:28:22,793 INFO mapreduce.Jobs: Number of both http://bubmitu:8088/proxy/application_1709574769693_0002
2024-03-05 00:28:22,793 INFO mapreduce.Job: The url to track the job http://bubmitu:8088/proxy/application_1709574769693_0002/
2024-03-05 00:28:22,793 INFO mapreduce.Job: Dob job_1709574769693_0002 running in uber mode : false
2024-03-05 00:28:33,001 INFO mapreduce.Job: map 100% reduce 0%
2024-03-05 00:28:33,001 INFO mapreduce.Job: map 100% reduce 0%
2024-03-05 00:28:40,177 INFO mapreduce.Job: map 100% reduce 0%
2024-03-05 00:28:47,371 INFO mapreduce.Job: map 100% reduce 0%
2024-03-05 00:28:47,371 INFO mapreduce.Job: Dob job_1709574769693_0002 completed successfully
2044-03-05 00:28:47,371 INFO mapreduce.Job: Dob job_1709574769693_0002 complet
```





• View output using command:

## hdfs dfs -cat /wordcount/Output/\*

```
hadoop@ubuntu:~$ hdfs dfs -cat /wordCount/Output/*
Also,
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processes,
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                1
state
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        3
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