EXP NO: 2

Run A Basic Word Count Map Reduce Program To Understand Map Reduce Paradigm

Input Files (wordCount.txt, mapper.py, reducer.py) :

```
hadoopsfedors:-/hadoop/experiments hadoop jar ../share/hadoop/mapreduce/hadoop-mapreduce-examples-3.4.0.jar wordcount /words.txt /output

2024-08-30 00:45:53,318 IMFO client.DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at /0.0.0.0:8032

2024-08-30 00:45:53,797 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hadoop/.staging/job_1724955478554_0005

2024-08-30 00:45:55,193 IMFO mapreduce.JobSubmitter: number of splits:1

2024-08-30 00:45:55,023 IMFO mapreduce.JobSubmitter: Submitting tokens for job: job_1724955478554_0005

2024-08-30 00:45:55,235 IMFO mapreduce.JobSubmitter: Executing with tokens: []

2024-08-30 00:45:55,235 IMFO conf.Configuration: resource-types.xml not found

2024-08-30 00:45:55,235 IMFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2024-08-30 00:45:55,335 IMFO implication: Job Implication application_1724955478554_0005

2024-08-30 00:45:55,413 IMFO mapreduce.Job: The url to track the job: http://fedora:8088/proxy/application_1724955478554_0005/

2024-08-30 00:45:55,413 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:45:05,413 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:02,612 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:02,612 IMFO mapreduce.Job: map 100% reduce 0%

2024-08-30 00:46:13,954 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:13,954 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:13,954 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:14,072 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:14,072 IMFO mapreduce.Job: Dob job_1724955478554_0005

2024-08-30 00:46:14,072 IMFO mapreduce.Job: Counters: 54
```

\$chmod 777 mapper.py reducer.py
\$hadoop jar \$HADOOP_STREAMING -input /exp2/word_count.txt -output
/exp2/output -mapper ~/DA-Lab/exp2/mapper.py -reducer ~/DALab/exp2/reducer.py

```
shadoop jar $HADOOP_STREAMING -input /expl/word_count.txt -output /expl/new_output -mapper -/DA-Lab/mapper.py -reducer -/DA-Lab/reducer.py 2024-08-28 03:19:55,058 MARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable package_DobJar: [/tmp/hadoop-unjars/5795207/] [] /tmp/streamjobil319961755751707411.jar rmpOir-null 2024-08-28 03:19:58,598 INFO client.DefaultMoHABMFailoverProxyProvider: Connecting to ResourceManager at /0.0.0:08302 2024-08-28 03:19:59,548 INFO client.DefaultMoHABMFailoverProxyProvider: Connecting to ResourceManager at /0.0.0:08302 2024-08-28 03:20:00,347 INFO mapreduce.JobSmbeiter: number of splits to process : 1 2024-08-28 03:20:00,347 INFO mapreduce.JobSmbeitter: number of splits:2 2024-08-28 03:20:00,083 INFO mapreduce.JobSmbeitter: number of splits:2 2024-08-28 03:20:00,083 INFO mapreduce.JobSmbeitter: submitting tokens for job: job_1724827394647_0002 2024-08-28 03:20:00,084 INFO mapreduce.JobSmbeitter: succuting with tokens: [] 2024-08-28 03:20:00,093 INFO mapreduce.JobSmbeitter: texcuting with tokens: [] 2024-08-28 03:20:00,093 INFO mapreduce.JobSmbeitter: submitting tokens for job: job_1724827394647_0002 2024-08-28 03:20:00,093 INFO mapreduce.JobSmbeitter: submitted application_1724827394647_0002 2024-08-28 03:20:00,093 INFO mapreduce.Job: Insole to find 'resource-types.xml'. 2024-08-28 03:20:00,793 INFO mapreduce.Job: The url to track the job: http://kalis.8088/proxy/application_1724827394647_0002 2024-08-28 03:20:10,079 INFO mapreduce.Job: The url to track the job: http://kalis.8088/proxy/application_1724827394647_0002 2024-08-28 03:20:10,115 INFO mapreduce.Job: Bap 0% reduce 0% 2024-08-28 03:20:17,794 INFO mapreduce.Job: map 0% reduce 0% 2024-08-28 03:20:17,794 INFO mapreduce.Job: map 0% reduce 0% 2024-08-28 03:20:17,794 INFO mapreduce.Job: map 100% reduce 0% 2024-08-28 03:21:57,794 INFO mapreduce.Job: map 100% reduce 00%
```

\$hdfs dfs -cat /output/*

```
hadoop@fedora:~/hadoop/experiments$ hdfs dfs -cat /output/*
Integer.parseInt()
                        1
String.valueOf()
                         1
and
        1
char
convert 1
converting
                1
int
method. 1
string 2
then
        1
to
        2
        2
using
```

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Result: Thus a basic Word Count program is run using map-reduce.	