Roll No: 20BCE057

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Course Code: 2CS702

Practical No: 6

Aim: Configure the number of mappers and reducers to execute practical 4 and 5. Evaluate the results and prepare a report on performance

Output:

Mapreudcer function for prac-4

```
starting yarn daemons
D:\hadoop-3.2.1>hadoop jar phase.jar PhraseFrequencyMapReduce /input4/input.txt /output4
JAR does not exist or is not a normal file: D:\hadoop-3.2.1\phase.jar
D:\hadoop-3.2.1>hdfs dfs -ls /
 ound 4 items

      drwxr-xr-x
      - Ayush supergroup
      0 2023-10-27 09:23 /input4

      drwxr-xr-x
      - Ayush supergroup
      0 2023-10-27 09:33 /output4

      drwx-----
      - Ayush supergroup
      0 2023-10-27 09:27 /tmp

      drwxr-xr-x
      - Ayush supergroup
      0 2023-08-25 09:41 /user

                                                                          0 2023-10-27 09:33 /output4
0 2023-10-27 09:27 /tmp
D:\hadoop-3.2.1>hdfs dfs -ls /output4/
 ound 2 items
 rw-r--r-- 1 Ayush supergroup 0 2023-10-27 09:33 /output4/_SUCCESS rw-r--r-- 1 Ayush supergroup 46 2023-10-27 09:33 /output4/part-r-00000
D:\hadoop-3.2.1>hdfs dfs -cat /output4/part-r-00000
2023-10-27 09:34:31,520 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteH
 ostTrusted = false
ACP
 DCP
DIG
 DSP
 EAS
 ΙG
D:\hadoop-3.2.1>
```

```
2073-10-27 10:01:35,635 IMFO mapreduce. Job: mmp 180% reduce 180%
2073-10-27 10:01:35,786 IMFO mapreduce. Job: Job job 1698379320721_9002 completed successfully
2073-10-27 10:01:35,786 IMFO mapreduce. Job: Counters: 50
File System Counters
FILE: Number of bytes read=90
FILE: Number of bytes written=453689
FILE: Number of Polytes written=453689
FILE: Number of large read operations=0
FILE: Number of large read operations=0
HDFS: Number of bytes read=123
HDFS: Number of bytes written=9
HDFS: Number of bytes written=9
HDFS: Number of bytes read=123
HDFS: Number of bytes read=123
HDFS: Number of bytes read=123
HDFS: Number of bytes read erasure-code=0
JOB Counters
Launched map tasks=1
Launched reduce tasks=1
Data-local map tasks=1
Total time spent by all maps in occupied slots (ms)=2838
Total time spent by all maps in occupied slots (ms)=2949
Total time spent by all map tasks (ms)=2838
Total time spent by all reduces in occupied slots (ms)=2949
Total time spent by all map tasks (ms)=2838
Total vore-milliseconds taken by all map tasks=2999
Total vore-milliseconds taken by all map tasks=2996112
```

```
Combine input records=0
Combine output records=0
Reduce input groups=1
Reduce shuffle bytes=90
Reduce input groups=1
Reduce output records=6
Reduce output records=6
Reduce output records=1
Spilled Records=12
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=94
CPU time spent (ms)=0
Physical memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Total committed heap usage (bytes)=295698432
Shuffle Errors
BAD ID=0
CONNECTION=0
IO ERROR=0
WROMS (ENGTH=0
WROMS (ENGTH=0
WROMS (EDUCE=0
File Input Format Counters
Bytes Read=21
File Output Format Counters
Bytes Read=21
File Output Format Counters
Bytes Written=9
PS D:\bdaprac 5> hdfs dfs - cat /output5/part-r-00000
2023-10-27 10:00:35,294 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
sum 4641
PS D:\bdaprac_5> []
```