

**NAME : S.LAVANYA**

**ROLL NO : 19UITE037**

**EX NO : 10**

**EX NAME : MAPREDUCE**

**DATE : 14/10/22**

```
Administrator: Windows PowerShell
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hdfs dfs -mkdir /user1
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hdfs dfs -put D:\lavanya.txt /user1
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hdfs dfs -ls /user1
Found 1 items
-rw-r--r-- 1 19uite032 supergroup 31 2022-11-04 14:34 /user1/lavanya.txt
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hdfs dfs -cat /user1/lavanya.txt
Hello Hihi Hello Lavanya dinika
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hadoop jar D:\hadoop-env\hadoop-3.2.2\share\hadoop\mapreduce\hadoop-mapreduce-examples-3.2.2.jar wordcount /user1 /out
2022-11-04 14:34:54,009 INFO client.RMPProxy: Connecting to ResourceManager at /0.0.0.0:8032
org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory hdfs://localhost:9820/out already exists
    at org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.checkOutputSpecs(FileOutputFormat.java:164)
    at org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:277)
    at org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:143)
    at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1565)
    at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1562)
    at java.security.AccessController.doPrivileged(Native Method)
    at javax.security.auth.Subject.doAs(Subject.java:422)
    at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1762)
    at org.apache.hadoop.mapreduce.Job.submit(Job.java:1562)
    at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1583)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.apache.hadoop.util.ProgramDriver$ProgramDescription.invoke(ProgramDriver.java:71)
    at org.apache.hadoop.util.ProgramDriver.run(ProgramDriver.java:144)
    at org.apache.hadoop.examples.ExampleDriver.main(ExampleDriver.java:74)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hadoop jar D:\hadoop-env\hadoop-3.2.2\share\hadoop\mapreduce\hadoop-mapreduce-examples-3.2.2.jar wordcount /user1 /out1
2022-11-04 14:35:12,674 INFO client.RMPProxy: Connecting to ResourceManager at /0.0.0.0:8032
2022-11-04 14:35:13,501 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/19uite032/.staging/job_1667550281802_0002
2022-11-04 14:35:13,946 INFO input.FileInputFormat: Total input files to process : 1
2022-11-04 14:35:14,354 INFO mapreduce.JobSubmitter: number of splits:1
2022-11-04 14:35:14,674 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1667550281802_0002
2022-11-04 14:35:14,678 INFO mapreduce.JobSubmitter: Executing with tokens: []
2022-11-04 14:35:14,927 INFO conf.Configuration: resource-types.xml not found
2022-11-04 14:35:14,928 INFO resource.ResourceUtil: Unable to find 'resource-types.xml'.
2022-11-04 14:35:15,025 INFO impl.YarnClientImpl: Submitted application application_1667550281802_0002
2022-11-04 14:35:15,080 INFO mapreduce.Job: The url to track the job: http://a4it64:8088/proxy/application_1667550281802_0002/
2022-11-04 14:35:15,081 INFO mapreduce.Job: Running job: job_1667550281802_0002
2022-11-04 14:35:30,435 INFO mapreduce.Job: Job job_1667550281802_0002 running in uber mode : false
2022-11-04 14:35:30,437 INFO mapreduce.Job: map 0% reduce 0%
2022-11-04 14:35:37,633 INFO mapreduce.Job: map 100% reduce 0%
2022-11-04 14:35:47,821 INFO mapreduce.Job: map 100% reduce 100%
```

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Administrator: Windows PowerShell
Total megabyte-milliseconds taken by all reduce tasks=7409664
Map-Reduce Framework
  Map input records=1
  Map output records=5
  Map output bytes=52
  Map output materialized bytes=56
  Input split bytes=104
  Combine input records=5
  Combine output records=4
  Reduce input groups=4
  Reduce shuffle bytes=56
  Reduce input records=4
  Reduce output records=4
  Spilled Records=8
  Shuffled Maps =1
  Failed Shuffles=0
  Merged Map outputs=1
  GC time elapsed (ms)=165
  CPU time spent (ms)=1747
  Physical memory (bytes) snapshot=506572800
  Virtual memory (bytes) snapshot=712654848
  Total committed heap usage (bytes)=3580224384
  Peak Map Physical memory (bytes)=337379328
  Peak Map Virtual memory (bytes)=449376256
  Peak Reduce Physical memory (bytes)=169193472
  Peak Reduce Virtual memory (bytes)=263278592
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Input Format Counters
  Bytes Read=31
File Output Format Counters
  Bytes Written=34
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin> hadoop fs -cat /out1/*
Hello 2
Hi!! 1
Lavanya 1
dinika 1
PS D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2\sbin>
```