root@student-ThinkCentre-M72e:~# hdfs dfs -mkdir /word

19/10/04 10:26:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

root@student-ThinkCentre-M72e:~# hdfs dfs -ls /

19/10/04 10:26:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 27 items

drwxr-xr-x - root root 4096 2019-10-04 10:20 /aggregate

drwxr-xr-x - root root 4096 2014-11-19 18:00 /bin drwxr-xr-x - root root 4096 2019-10-04 10:26 /word

root@student-ThinkCentre-M72e:~# hdfs dfs -copyFromLocal

/home/administrator/wordcount/input.txt /word

19/10/04 10:29:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

root@student-ThinkCentre-M72e:~# hdfs dfs -ls /word

19/10/04 10:29:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 1 items

-rw-r--r-- 1 root root 59 2019-10-04 10:29 /word/input.txt

root@student-ThinkCentre-M72e:~# javac -d /home/administrator/wordcount/class /home/administrator/wordcount/wordcount.java

Note: /home/administrator/wordcount/wordcount.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

root@student-ThinkCentre-M72e:~# jar -cvf /home/administrator/wordcount/word.jar -C /home/administrator/wordcount/class/ .

added manifest

adding: wordcount.class(in = 1675) (out= 888)(deflated 46%)

adding: wordcount\$MapForWordCount.class(in = 1788) (out= 754)(deflated 57%)

adding: wordcount\$ReduceForWordCount.class(in = 1647) (out= 688)(deflated 58%)

root@student-ThinkCentre-M72e:~# hadoop jar /home/administrator/wordcount/word.jar wordcount /word/input.txt /word/output

19/10/04 10:33:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

19/10/04 10:33:21 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id

19/10/04 10:33:21 INFO jvm.JvmMetrics: Initializing JVM Metrics with

processName=JobTracker, sessionId=

19/10/04 10:33:21 INFO input.FileInputFormat: Total input paths to process: 1

19/10/04 10:33:21 INFO mapreduce. JobSubmitter: number of splits:1

19/10/04 10:33:21 INFO mapreduce. JobSubmitter: Submitting tokens for job:

job local235199618 0001

19/10/04 10:33:21 INFO mapreduce. Job: The url to track the job: http://localhost:8080/

```
19/10/04 10:33:21 INFO mapreduce.Job: Running job: job_local235199618_0001
19/10/04 10:33:21 INFO mapred.LocalJobRunner: OutputCommitter set in config null
19/10/04 10:33:21 INFO mapred.LocalJobRunner: OutputCommitter is
org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
19/10/04 10:33:21 INFO mapred.LocalJobRunner: Waiting for map tasks
19/10/04 10:33:21 INFO mapred.LocalJobRunner: Starting task:
attempt_local235199618_0001_m_000000 0
19/10/04 10:33:22 INFO mapred.Task: Using ResourceCalculatorProcessTree : []
19/10/04 10:33:22 INFO mapred.MapTask: Processing split: file:/word/input.txt:0+59
19/10/04 10:33:22 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
19/10/04 10:33:22 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
19/10/04 10:33:22 INFO mapred.MapTask: soft limit at 83886080
19/10/04 10:33:22 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
19/10/04 10:33:22 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
19/10/04 10:33:22 INFO mapred.MapTask: Map output collector class =
org.apache.hadoop.mapred.MapTask$MapOutputBuffer
19/10/04 10:33:22 INFO mapred.LocalJobRunner:
19/10/04 10:33:22 INFO mapred.MapTask: Starting flush of map output
19/10/04 10:33:22 INFO mapred.MapTask: Spilling map output
19/10/04 10:33:22 INFO mapred.MapTask: bufstart = 0; bufend = 123; bufvoid = 104857600
19/10/04 10:33:22 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend =
26214336(104857344); length = 61/6553600
19/10/04 10:33:22 INFO mapred.MapTask: Finished spill 0
19/10/04 10:33:22 INFO mapred.Task: Task:attempt local235199618 0001 m 000000 0 is
done. And is in the process of committing
19/10/04 10:33:22 INFO mapred.LocalJobRunner: map
19/10/04 10:33:22 INFO mapred.Task: Task 'attempt local235199618 0001 m 000000 0'
done.
19/10/04 10:33:22 INFO mapred.LocalJobRunner: Finishing task:
attempt local235199618 0001 m 000000 0
19/10/04 10:33:22 INFO mapred.LocalJobRunner: map task executor complete.
19/10/04 10:33:22 INFO mapred.LocalJobRunner: Waiting for reduce tasks
19/10/04 10:33:22 INFO mapred.LocalJobRunner: Starting task:
attempt local235199618 0001 r 000000 0
19/10/04 10:33:22 INFO mapred.Task: Using ResourceCalculatorProcessTree: []
19/10/04 10:33:22 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin:
org.apache.hadoop.mapreduce.task.reduce.Shuffle@48a6d3
19/10/04 10:33:22 INFO reduce.MergeManagerImpl: MergerManager:
memoryLimit=334063200, maxSingleShuffleLimit=83515800, mergeThreshold=220481728,
ioSortFactor=10, memToMemMergeOutputsThreshold=10
19/10/04 10:33:22 INFO reduce. Event Fetcher: attempt local 235199618 0001 r 000000 0
Thread started: EventFetcher for fetching Map Completion Events
19/10/04 10:33:22 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map
attempt_local235199618_0001_m_000000_0 decomp: 157 len: 161 to MEMORY
19/10/04 10:33:22 INFO reduce.InMemoryMapOutput: Read 157 bytes from map-output for
attempt local235199618 0001 m 000000 0
19/10/04 10:33:22 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size:
157, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 157
```

```
19/10/04 10:33:22 INFO reduce. Event Fetcher: Event Fetcher is interrupted.. Returning
19/10/04 10:33:22 INFO mapred.LocalJobRunner: 1 / 1 copied.
19/10/04 10:33:22 INFO reduce. MergeManagerImpl: finalMerge called with 1 in-memory
map-outputs and 0 on-disk map-outputs
19/10/04 10:33:22 INFO mapred.Merger: Merging 1 sorted segments
19/10/04 10:33:22 INFO mapred. Merger: Down to the last merge-pass, with 1 segments left of
total size: 154 bytes
19/10/04 10:33:22 INFO reduce. MergeManagerImpl: Merged 1 segments, 157 bytes to disk to
satisfy reduce memory limit
19/10/04 10:33:22 INFO reduce. MergeManagerImpl: Merging 1 files, 161 bytes from disk
19/10/04 10:33:22 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory
into reduce
19/10/04 10:33:22 INFO mapred Merger: Merging 1 sorted segments
19/10/04 10:33:22 INFO mapred. Merger: Down to the last merge-pass, with 1 segments left of
total size: 154 bytes
19/10/04 10:33:22 INFO mapred.LocalJobRunner: 1 / 1 copied.
19/10/04 10:33:22 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use
mapreduce.job.skiprecords
19/10/04 10:33:22 INFO mapred.Task: Task:attempt_local235199618_0001_r_000000_0 is
done. And is in the process of committing
19/10/04 10:33:22 INFO mapred.LocalJobRunner: 1 / 1 copied.
19/10/04 10:33:22 INFO mapred.Task: Task attempt_local235199618_0001_r_000000_0 is
allowed to commit now
19/10/04 10:33:22 INFO output.FileOutputCommitter: Saved output of task
'attempt local235199618 0001 r 000000 0' to
file:/word/output/_temporary/0/task_local235199618_0001_r_000000
19/10/04 10:33:22 INFO mapred.LocalJobRunner: reduce > reduce
19/10/04 10:33:22 INFO mapred.Task: Task 'attempt local235199618 0001 r 000000 0'
done.
19/10/04 10:33:22 INFO mapred.LocalJobRunner: Finishing task:
attempt local235199618 0001 r 000000 0
19/10/04 10:33:22 INFO mapred.LocalJobRunner: reduce task executor complete.
19/10/04 10:33:22 INFO mapreduce.Job: Job job_local235199618_0001 running in uber mode :
false
19/10/04 10:33:22 INFO mapreduce. Job: map 100% reduce 100%
19/10/04 10:33:22 INFO mapreduce. Job: Job job local 235199618 0001 completed
successfully
19/10/04 10:33:22 INFO mapreduce. Job: Counters: 33
       File System Counters
              FILE: Number of bytes read=7004
             FILE: Number of bytes written=511076
             FILE: Number of read operations=0
             FILE: Number of large read operations=0
             FILE: Number of write operations=0
       Map-Reduce Framework
              Map input records=8
```

Map output records=16 Map output bytes=123

```
Map output materialized bytes=161
             Input split bytes=85
             Combine input records=0
             Combine output records=0
             Reduce input groups=13
             Reduce shuffle bytes=161
             Reduce input records=16
             Reduce output records=13
             Spilled Records=32
             Shuffled Maps =1
             Failed Shuffles=0
             Merged Map outputs=1
             GC time elapsed (ms)=7
             CPU time spent (ms)=0
             Physical memory (bytes) snapshot=0
             Virtual memory (bytes) snapshot=0
             Total committed heap usage (bytes)=361889792
      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=75
      File Output Format Counters
             Bytes Written=89
root@student-ThinkCentre-M72e:~# hdfs dfs -ls /word/output
19/10/04 10:33:43 WARN util. NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r 1 root root
                        0 2019-10-04 10:33 /word/output/ SUCCESS
-rw-r--r 1 root root
                        77 2019-10-04 10:33 /word/output/part-r-00000
root@student-ThinkCentre-M72e:~# hdfs dfs -cat /word/output/part-r-00000
19/10/04 10:34:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
      2
:WQ
      1
AM
      1
ARE 1
GOOD 1
HELLO
             1
      2
      2
HOW
      1
```

HI

IS 1 SISTER 1 YOU 1 YOUR 1