Date : 15/10/22

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EX:10

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MapReduce (WordCount Program)

Step 1: Create a text file **"D:/data.txt"**

Step 2: Create a directory in HDFS, where to kept text file.

hdfs dfs -mkdir /user

Step 3: Upload the data.txt file on HDFS in the specific directory

hdfs dfs -put D:/data.txt /user

Step 4: List the files or directories in hdfs

hdfs dfs -ls /user/

Step 5: To view the content of the file **"/user/data.txt"**

hdfs dfs -cat /user/data.txt

Step 6: Run the jar file

hadoop jar D:/hadoop-env/hadoop-3.2.2/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.2.jar wordcount /user /out
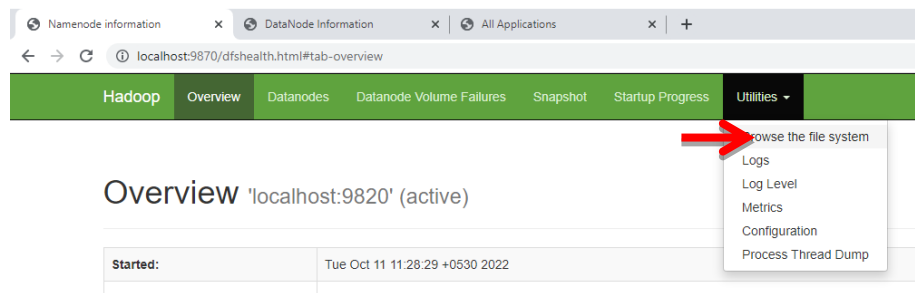

Step 7: To view the output in **"/out/*"**

hadoop fs -cat /out/*

Output

Browse Directory

← → C ⓘ localhost:9870/explorer.html#/

Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities ▾

Browse Directory

| / | | | | | | | | Go! |

Show 25 ▾ entries   Search:

☐	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐	drwxr-xr-x	Administrator	supergroup	0 B	Oct 11 11:37	0	0 B	out	🗑
☐	drwx------	Administrator	supergroup	0 B	Oct 11 11:36	0	0 B	tmp	🗑
☐	drwxr-xr-x	Administrator	supergroup	0 B	Oct 11 11:34	0	0 B	user	🗑

← → C ⓘ localhost:9870/explorer.html#/out

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Browse Directory

| /out | | | | | | | | Go! |

Show 25 ▾ entries   Search:

☐	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐	-rw-r--r--	Administrator	supergroup	0 B	Oct 11 11:37	1	128 MB	_SUCCESS	🗑
☐	-rw-r--r--	Administrator	supergroup	28 B	Oct 11 11:37	1	128 MB	part-r-00000	🗑

Showing 1 to 2 of 2 entries   Previous 1 Next

File information - part-r-00000   ×

Download   Head the file (first 32K)   Tail the file (last 32K)

Block information — Block 0 ▾

Block ID: 1073741832

Block Pool ID: BP-789191111-172.16.8.55-1665467846441

Generation Stamp: 1008

Size: 28

Availability:

- a4it55.KC.VNR

File contents

```
Cloud    3
Grid  2
Lab. 3
and  2
```