IT8711 FOSS AND CLOUD COMPUTING LABORATORY

ROLL NUMBER: 19UITE010 REGISTER NO: 920419205040

NAME: SHYAMALA.M EXERCISE NO: 10

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

```
Administrator: Windows PowerShell

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -mkdir /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> _
```

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

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

```
Administrator: Windows PowerShell

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -mkdir /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -put D:/data.txt /user

PS D:\hadoop-env\hadoop-3.2.2\sbin>
```

Step 4: List the files or directories in hdfs

hdfs dfs -ls /user/

```
Administrator: Windows PowerShell

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -mkdir /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -put D:/data.txt /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -ls /user/

Found 1 items

-rw-r--r-- 1 Administrator supergroup 50 2022-10-11 11:34 /user/data.txt

PS D:\hadoop-env\hadoop-3.2.2\sbin> ____
```

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

hdfs dfs -cat /user/data.txt

```
Administrator: Windows PowerShell

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -mkdir /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -put D:/data.txt /user

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -ls /user/

Found 1 items

-rw-r--r-- 1 Administrator supergroup 50 2022-10-11 11:34 /user/data.txt

PS D:\hadoop-env\hadoop-3.2.2\sbin> hdfs dfs -cat /user/data.txt

Cloud and Grid Lab. Cloud and Grid Lab. Cloud Lab.

PS D:\hadoop-env\hadoop-3.2.2\sbin>
```

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

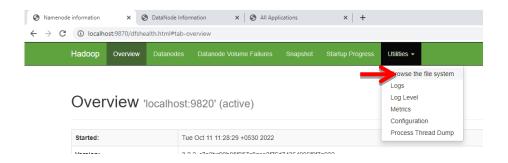
Step 7: To view the output in "/out/*"

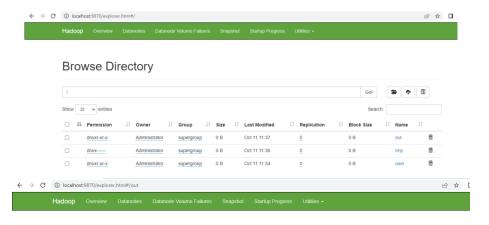
hadoop fs -cat /out/*

```
Bytes Written=28
PS D:\hadoop-env\hadoop-3.2.2\sbin> hadoop fs -cat /out/*
Cloud 3
Grid 2
Lab. 3
and 2
PS D:\hadoop-env\hadoop-3.2.2\sbin> 

Bytes Written=28
B
```

Output





Browse Directory



