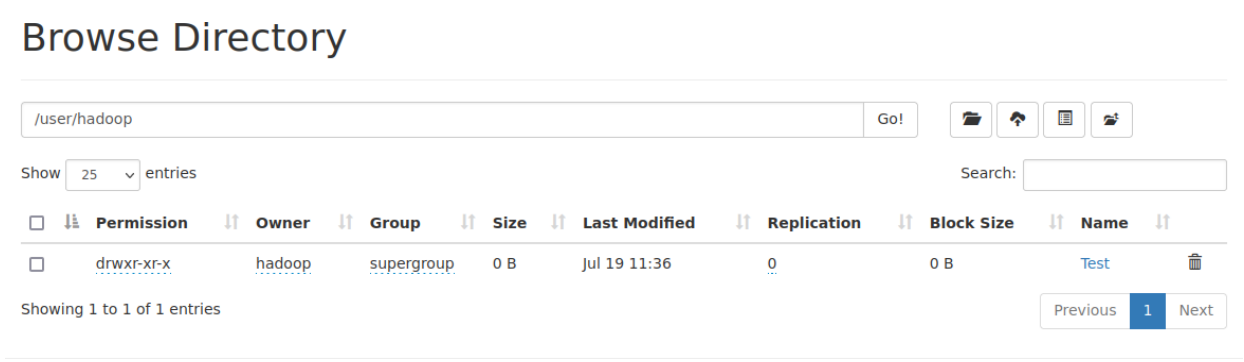
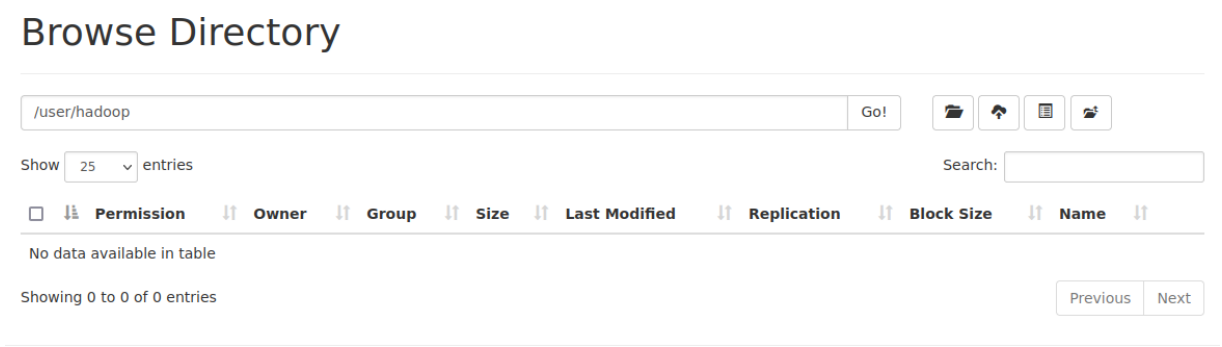
Lab – 3

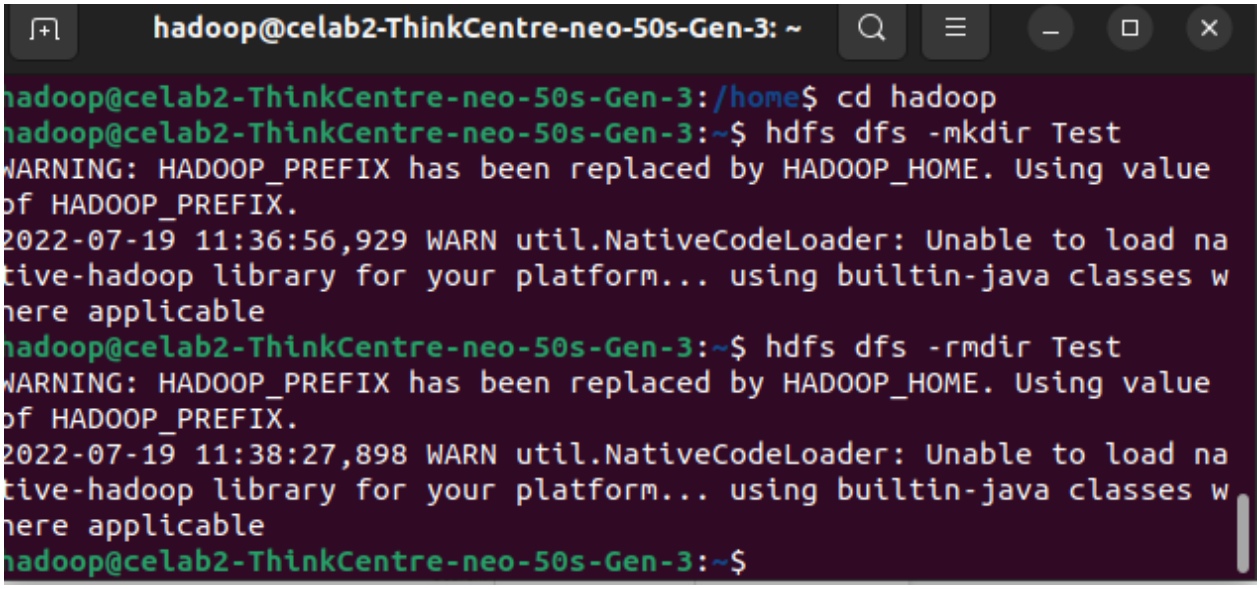
CE004
20CEUOD004

Aim: "Interfacing to Distributed File System – HDFS commands and Web GUIfile system browser usage"

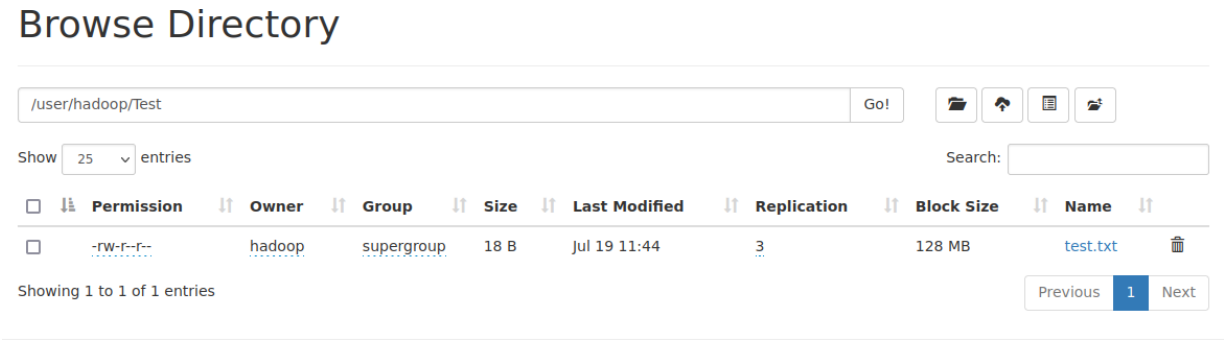
1. Create /Delete a directory/file named 'Test' from HDFS web UI in '/user/hadoop'. It should give error message. Read this message and solve theerror.







2. Create a text file in local file system and put the same file in HDFS using appropriate command.



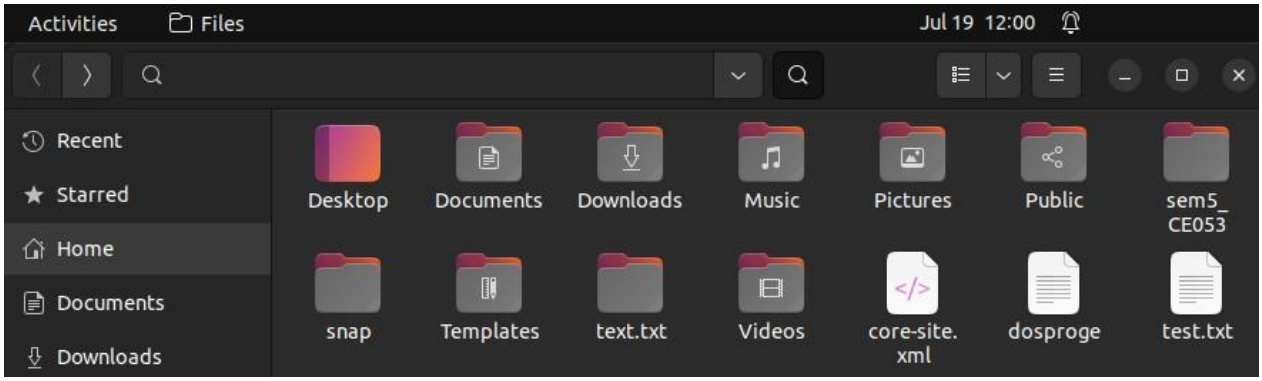
```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ ls
core-site.xml  dosproge   Pictures    snap        Videos
Desktop        Downloads  Public      Templates
Documents      Music      sem5_CE053  test.txt
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ pwd
/home/hadoop
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -put test.txt /us
er/hadoop/Test
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 11:44:45,702 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

3. Display the contents of this file of HDFS on terminal.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /user/hadoop
/Test/test.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 11:51:21,377 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
Hi From Hello !!!
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

4. Download this file of HDFS on local machine and change its contents. Uploadthis modified file again on HDFS and verify its contents. Also make sure that thisfile should be deleted from local machine automatically.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -get /user/hadoop
/Test/test.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 11:59:43,955 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```




```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~
command [genericOptions] [commandOptions]

hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -moveFromLocal /h
ome/hadoop/test.txt /home/hadoop/Test/Test2.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 12:15:39,146 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /user/hadoop
/Test/Test2.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 12:16:11,782 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
cat: `/user/hadoop/Test/Test2.txt': No such file or directory
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /home/hadoop
/Test/Test2.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 12:16:22,409 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
Hi From Hello !!!
Hello says Hey To Hi !!!
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

5. Fnd out ai CLI way to display all file system commands supported by hdfs.Record the list.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/home$ cd hadoop
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -mkdir Test
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 11:36:56,929 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -rmdir Test
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value
of HADOOP_PREFIX.
2022-07-19 11:38:27,898 WARN util.NativeCodeLoader: Unable to load na
tive-hadoop library for your platform... using builtin-java classes w
here applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ ls
core-site.xml  dosproge   Pictures   snap       Videos
Desktop        Downloads  Public     Templates
Documents      Music      sem5_CE053 test.txt
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ pwd
/home/hadoop
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -put test.txt /us
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /user/hadoop
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -get /user/hadoop
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here applicable
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /home/hadoop
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