

EXERCISE NO.: 02

FILE MANAGEMENT TASKS IN HADOOP

AIM:

To perform basic file management operations in Hadoop Distributed File System (HDFS), including uploading, downloading, copying, moving, and deleting files and directories, and to understand HDFS commands and file handling.

PROCEDURE:

1. Create a folder and file in HDFS.
2. Upload a File to HDFS.
3. Download a File from HDFS.
4. Copy a File in HDFS.
5. Copy a File Between Local File System and HDFS.
6. Move a File in HDFS.
7. Remove a File or Directory in HDFS.
8. Verify Operations.

OUTPUT:

```
C:\Users\HDC0422055>hdfs dfs -mkdir /user
C:\Users\HDC0422055>hdfs dfs -mkdir /user
mkdir: '/user': File exists

C:\Users\HDC0422055>hdfs dfs -mkdir /user/newnode

C:\Users\HDC0422055>hdfs dfs -ls /
Found 2 items
drwxr-xr-x  - HDC0422055 supergroup          0 2025-07-17 16:17 /user
drwxr-xr-x  - HDC0422055 supergroup          0 2025-07-17 16:15 /user/newnode

C:\Users\HDC0422055>hdfs dfs -ls /user
Found 1 items
drwxr-xr-x  - HDC0422055 supergroup          0 2025-07-17 16:17 /user/newnode

C:\Users\HDC0422055>echo "Hello Hadoop" > example.txt

C:\Users\HDC0422055>hdfs dfs -put example.txt /user\newnode

C:\Users\HDC0422055>hdfs dfs -ls /user/newnode/
Found 1 items
-rw-r--r--  1 HDC0422055 supergroup         17 2025-07-17 16:18 /user/newnode/example.txt

C:\Users\HDC0422055>hdfs dfs -get /user/newnode/example.txt C:\local\path\
get: 'C:/Local/path/': No such file or directory: 'file:/C:/Local/path/'

C:\Users\HDC0422055>hdfs dfs -get /user/newnode/example.txt C:\
get: Access is denied.

C:\Users\HDC0422055>hdfs dfs -cp /user/newnode/example.txt /user/newnode/example_copy.txt

C:\Users\HDC0422055>hdfs dfs -mv /user/newnode/example_copy.txt /user/newnode/example2.txt

C:\Users\HDC0422055>hdfs dfs -rm /user/newnode/example2.txt
Deleted /user/newnode/example2.txt

C:\Users\HDC0422055>hdfs dfs -rm -r /user/newnode
Deleted /user/newnode
```

RESULT:

Thus, the basic HDFS file management operations (upload, download, copy, move, delete) were successfully performed.