

IMPLEMENTATION OF FILE MANAGEMENT TASKS**1. Creating a directory in HDFS****SYNTAX: -**

```
hadoop fs -mkdir <paths>
```

Example:

```
hadoop fs -mkdir /user
```

```
hadoop fs -mkdir /user/dir1
```

```
C:\Windows\System32>hadoop fs -mkdir /user  
C:\Windows\System32>hadoop fs -mkdir /user/dir1
```

2. Listing the contents of a directory**STNTAX: -**

```
hadoop fs -ls <directory name>
```

Example:

```
hadoop fs -ls /user
```

```
hadoop fs -ls /user/dir1
```

```
C:\Windows\System32>hadoop fs -ls /user  
Found 1 items  
drwxr-xr-x - moham supergroup      0 2023-10-11 07:19 /user/dir1  
  
C:\Windows\System32>hadoop fs -ls /user/dir1
```

3. Uploading and downloading a file in HDFS

SYNTAX: -(UPLOAD)

`hadoop fs -put <local file system path> <hdfs destination path>`

Example:

`hadoop fs -put C:\Home\samplefile.txt.txt /user/dir1/`

`hadoop fs -ls /user/dir1`

```
C:\Windows\System32>hadoop fs -put C:\Home\samplefile.txt /user/dir1

C:\Windows\System32>hadoop fs -ls /user/dir1
Found 1 items
-rw-r--r--  1 moham supergroup      0 2023-10-11 07:30 /user/dir1/samplefile.txt
```

SYNTAX: -(DOWNLOAD)

`hadoop fs -get <hdfs src> <local dst>`

Example:

`hadoop fs -get /user/dir1/samplefile.txt C:\Home`

```
C:\Windows\System32>hadoop fs -get /user/dir1 C:\Home
```

4. See the contents of a file

SYNTAX: -

`hadoop fs -cat <path[filename]>`

Example:

`hadoop fs -cat /user/dir1/samplefile.txt`

```
C:\Windows\System32>hadoop fs -cat /user/dir1/samplefile.txt
1
2
3
4
5
```

5. Copy a file from source to destination

SYNTAX: -

```
hadoop fs -cp <src> <dst>
```

Example:

```
hadoop fs /user/dir1/samplefile.txt /user/dir2
```

```
C:\Windows\System32>hadoop fs -mkdir /user/dir2  
C:\Windows\System32>hadoop fs -cp /user/dir1/samplefile.txt /user/dir2/  
C:\Windows\System32>hadoop fs -ls /user/dir2  
Found 1 items  
-rw-r--r--  1 moham supergroup      13 2023-10-11 07:50 /user/dir2/samplefile.txt
```

6. Copy a file from and to local file system to hdfs

SYNTAX: -(FROM)

```
hadoop fs -copyFromLocal <local file system file path> <hdfs dst>
```

Example:

```
hadoop fs -copyFromLocal C:\Home\test.txt /user/dir1
```

```
C:\Windows\System32>hadoop fs -copyFromLocal C:\Home\test.txt /user/dir1  
C:\Windows\System32>hadoop fs -ls /user/dir1  
Found 2 items  
-rw-r--r--  1 moham supergroup      13 2023-10-11 07:42 /user/dir1/samplefile.txt  
-rw-r--r--  1 moham supergroup       0 2023-10-11 07:57 /user/dir1/test.txt
```

SYNTAX: -(TO)

```
hadoop fs -copyToLocal <hdfs src> <local dst>
```

Example:

```
hadoop fs /user/dir1/samplefile.txt C:\Home\
```

```
C:\Windows\System32>hadoop fs -copyToLocal /user/dir1/samplefile.txt C:\Home\
```

7. Move file from source to destination

SYNTAX: -

```
hadoop fs -mv <src> <dst>
```

Example:

```
hadoop fs -mv /user/dir1/test.txt /user/dir2/
```

```
C:\Windows\System32>hadoop fs -mv /user/dir1/test.txt /user/dir2

C:\Windows\System32>hadoop fs -ls /user/dir2
Found 2 items
-rw-r--r--  1 moham supergroup      13 2023-10-11 07:50 /user/dir2/samplefile.txt
-rw-r--r--  1 moham supergroup       0 2023-10-11 07:57 /user/dir2/test.txt
```

8. Remove a file or directory in hdfs

SYNTAX: -

```
hadoop fs -rm <arg>
```

Example:

```
hadoop fs -rm /user/dir1/samplefile.txt
```

```
C:\Windows\System32>hadoop fs -rm /user/dir1/samplefile.txt
Deleted /user/dir1/samplefile.txt

C:\Windows\System32>hadoop fs -ls /user/dir1/
```

SYNTAX: - (Recursive method for deleting directories)

```
hadoop fs -rm -r <arg>
```

Example:

```
hadoop fs -rm -r /user/dir1
```

```
C:\Windows\System32>hadoop fs -rm -r /user/dir1
Deleted /user/dir1

C:\Windows\System32>hadoop fs -ls /user
Found 1 items
drwxr-xr-x  - moham supergroup       0 2023-10-11 08:13 /user/dir2
```

9. Display few lines of a file

SYNTAX: -

hadoop fs -tail <path[filename]>

Example:

hadoop fs -tail /user/dir2/samplefile.txt

```
C:\Windows\System32>hadoop fs -tail /user/dir2/samplefile.txt
1
2
3
4
5
```

10. Display the aggregate length of a file

SYNTAX: -

hadoop fs -du <path>

Example:

hadoop fs -du /user/dir2/samplefile.txt

```
C:\Windows\System32>hadoop fs -du /user/dir2/samplefile.txt
13 13 /user/dir2/samplefile.txt
```

RESULT: