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1. Create a directory in HDFS.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -mkdir MR
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -mkdir MR/Data
```

2. Copy any file from the local machine to the newly created directory.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -copyFromLocal NYSE_DATA.txt MR/Data/input.txt
[hadoop@ip-172-31-18-68 ~]$
```

3. List the directory's contents.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -ls MR/Data
Found 1 items
-rw-r--r--  1 hadoop hdfsadmin 273 2024-02-21 07:09 MR/Data/input.txt
```

4. View the contents of the file.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -cat MR/Data/input.txt
CAH,Mon,48
GE,Tue,12
MCD,Wed,170
PFE,Thu,40
BAC,Fri,26
CAH,Mon,55
GE,Tue,13
MCD,Wed,160
PFE,Thu,42
BAC,Fri,25
CAH,Mon,56
GE,Tue,7
MCD,Wed,162
PFE,Thu,38
BAC,Fri,21
CAH,Mon,50
GE,Tue,15
MCD,Wed,140
PFE,Thu,45
BAC,Fri,23
CAH,Mon,42
GE,Tue,13
MCD,Wed,175
PFE,Thu,44
BAC,Fri,25[hadoop@ip-172-31-18-68 ~]$
```

5. Rename any file in HDFS.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -mv MR/Data/input.txt MR/Data/Newinput.txt
```

6. Create another directory in HDFS and move any file from one directory to another.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -mkdir MR2
```

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -mv MR/Data/Newinput.txt MR2/input.txt  
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -ls MR2  
Found 1 items
```

7. Delete any file.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -rm MR2/input.txt  
Deleted MR2/input.txt
```

8. Delete any directory.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -rm -r MR2  
Deleted MR2
```

9. Move any file from HDFS to the local machine.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -copyToLocal MR/Data/input.txt  
[hadoop@ip-172-31-18-68 ~]$ ls  
NYSE_DATA.txt  input.txt
```

10. Display the size of files.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -du MR/Data/input.txt
273  273  MR/Data/input.txt
```

11. Change the group of any file or directory.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -chgrp NEW_GROUP MR
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -ls
Found 3 items
drwxr-xr-x  - hadoop hdfsadmingroup      0 2024-02-21 07:51 HDFStest
drwxr-xr-x  - hadoop NEW_GROUP            0 2024-02-21 07:00 MR
-rw-r--r--  1 hadoop hdfsadmingroup      273 2024-02-21 07:09 Newinput.txt
```

12. Change the permissions of any file or directory.

```
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -chmod 707 MR
[hadoop@ip-172-31-18-68 ~]$ hadoop fs -ls
Found 3 items
drwxr-xr-x  - hadoop hdfsadmingroup      0 2024-02-21 07:51 HDFStest
drwx---rwx  - hadoop NEW_GROUP            0 2024-02-21 07:00 MR
-rw-r--r--  1 hadoop hdfsadmingroup      273 2024-02-21 07:09 Newinput.txt
```