

P. chaitanya
1N19IS108

Checking the hadoop version.

```
Activities Terminal May 25 15:07
hadoop@admin1-HP-280-G4-MT-Business-PC: ~
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop version
Hadoop 3.2.1
Source code repository https://gitbox.apache.org/repos/asf/hadoop.git -r b3cbb467e22ea829b3808f4b7b01d07e0bf3842
Compiled by rohithsharmaks on 2019-09-10T15:56Z
Compiled with protoc 2.5.0
From source with checksum 776eaf9eee9c0ffc370bcb1888737
This command was run using /home/hadoop/hadoop-3.2.1/share/hadoop/common/hadoop-common-3.2.1.jar
```

start -dfs.sh

```
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ start-dfs.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]
```

1.Create a directory named by your name.

hadoop fs -mkdir /chaitanya

hadoop fs -ls /

```
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mkdir /chaitanya
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /
Found 3 items
drwxr-xr-x - hadoop supergroup 0 2022-05-25 14:29 /chaitanya
drwxrwxr-x - hadoop supergroup 0 2021-07-28 12:58 /tmp
drwxr-xr-x - hadoop supergroup 0 2021-07-28 12:56 /user
```

2. Add two empty files into it.

hadoop fs -touchz /chaitanya/file1.txt

hadoop fs -touchz /chaitanya/file2.txt

```
drwxr-xr-x - hadoop supergroup 0 2021-07-28 12:56 /user
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /chaitanya/file1.txt
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /chaitanya/file2.txt
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya
Found 2 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/file1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/file2.txt
```

3. List all the files in the directory that you have created.

hadoop fs -ls /chaitanya

```
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya
Found 2 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/file1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/file2.txt
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mkdir /chaitanya/1N19IS108
```

4.Create one more directory by your USN and put that inside the directory of your name.

hadoop fs -mkdir /chaitanya/1N19IS108

hadoop fs -ls /chaitanya

```
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mkdir /chaitanya/1NT19IS108
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya
Found 3 items
drwxr-xr-x  - hadoop supergroup          0 2022-05-25 14:34 /chaitanya/1NT19IS108
-rw-r--r--  1 hadoop supergroup          0 2022-05-25 14:32 /chaitanya/file1.txt
-rw-r--r--  1 hadoop supergroup          0 2022-05-25 14:32 /chaitanya/file2.txt
```

5. Create a file in your local system by the name_usn.txt and add the contents as “Syntax to list ls command is hadoop fs-ls”

```
cat > harshini_1NT19IS108.txt
```

Syntax to list ls command is

```
hadoop fs -ls
```

```
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ cat > chaitanya_INT19IS108.txt
```

```
syntax to list ls command is hadoop fs -ls
^Z
[1]+  Stopped                  cat > chaitanya_INT19IS108.txt
```

Put the file usn_name.txt in your hdfs directory called usn Put an empty file of hdfs into the local file system.

```
hadoop fs -touchz /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
```

```
hadoop fs -touchz /chaitanya/1NT19IS108/f1.txt
```

```
hadoop fs -ls /chaitanya/1NT19IS108
```

```
hadoop fs -copyToLocal /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
```

ls

```
[1]+  Stopped                  cat > chaitanya_INT19IS108.txt
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya/1NT19IS108
Found 1 items
-rw-r--r--  1 hadoop supergroup          0 2022-05-25 14:40 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ HADOOP FS -TOUCHZ /CHAITANYA/1NT19IS108/f1.txt
HADOOP: command not found
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /chaitanya/1NT19IS108/f1.txt
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya/1NT19IS108
Found 2 items
-rw-r--r--  1 hadoop supergroup          0 2022-05-25 14:40 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
-rw-r--r--  1 hadoop supergroup          0 2022-05-25 14:43 /chaitanya/1NT19IS108/f1.txt
```

```
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ hadoop fs -copyToLocal /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
hadoop@admi1-HP-280-G4-MT-Business-PC:~$ ls
1NT19IS108_chaitanya.txt  apache-hive-3.1.2-bin.tar.gz  chaitanya_INT19IS108.txt  Documents  hadoop-3.2.1  Pictures  snap  Videos
ahha.c                   chaitanya                     Desktop                   Downloads  hadoop-3.2.1.tar.gz  prank.c  Templates
apache-hive-3.1.2-bin    chaitanya_int19is108          dfsdata                  eclipse-workspace  Music              Public    tmpdata
```

Use mv command to move files from local file system and hdfs file system

```
hadoop fs -mv /chaitanya/file2.txt /chaitanya/1NT19IS108
```

```
hadoop fs -ls /chaitanya/1NT19IS108
```

```

hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mv /chaitanya/file2.txt /chaitanya/1NT19IS108
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya/1NT19IS108
Found 3 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:40 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:43 /chaitanya/1NT19IS108/f1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/1NT19IS108/file2.txt
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mv /chaitanya/file1.txt /chaitanya/1NT19IS108
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya/1NT19IS108
Found 4 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:40 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:43 /chaitanya/1NT19IS108/f1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/1NT19IS108/file1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 14:32 /chaitanya/1NT19IS108/file2.txt

```

Experiment of cp command

`hadoop fs -cp /chaitanya/file1.txt /chaitanya/1NT19IS108`

`hadoop fs -ls /chaitanya/1NT19IS108`

```

hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -cp /chaitanya/file1.txt /chaitanya/1NT19IS108
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /chaitanya/1NT19IS108
Found 4 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 15:11 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 15:11 /chaitanya/1NT19IS108/f1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 15:11 /chaitanya/1NT19IS108/file1.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-25 15:11 /chaitanya/1NT19IS108/file2.txt

```

Display the total size of all files in name directory

`hadoop fs -du /chaitanya`

`hadoop fs -du -s /chaitanya`

```

hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -du -s /chaitanya
0 0 /chaitanya

```

Display each file size in USN directory Use stat command on name and usn directories.

```

hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -du /chaitanya/1NT19IS108
0 0 /chaitanya/1NT19IS108/1NT19IS108_chaitanya.txt
0 0 /chaitanya/1NT19IS108/f1.txt
0 0 /chaitanya/1NT19IS108/file1.txt
0 0 /chaitanya/1NT19IS108/file2.txt

```

Illustrate the use of append command

`cat > empty1.txt Hello World`

`hadoop fs -appendToFile file1.txt /chaitanya/1NT19IS108/file2.txt`

`hadoop fs -cat /chaitanya/1NT19IS108/file2.txt`

```

hadoop@admin1-HP-280-G4-MT-Business-PC:~$ cat > file1.txt
hello world
^Z
[2]+  Stopped                  cat > file1.txt
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -appendToFile file1.txt /chaitanya/1NT19IS108/file2.txt
2022-05-25 15:24:55,719 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -cat /chaitanya/1NT19IS108/FILE2.TXT
cat: '/chaitanya/1NT19IS108/FILE2.TXT': No such file or directory
hadoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -cat /chaitanya/1NT19IS108/file2.txt
2022-05-25 15:26:08,175 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
hello world
hadoop@admin1-HP-280-G4-MT-Business-PC:~$

```

