Name: ULLAAS

USN:1NT19IS179

EXP-2 HADOOP COMMANDS

To start with hadoop

>hadoop version

```
hdoop@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 b3cbbb4
67e22ea829b3808f4b7b01d07e0bf3842
Compiled by rohithsharmaks on 2019-09-10T15:56Z
Compiled with protoc 2.5.0
From source with checksum 776eaf9eee9c0ffc370bcbc1888737
This command was run using /home/hdoop/hadoop-3.2.1/share/hadoop/common/hadoop-c
ommon-3.2.1.jar
hdoop@admin1-HP-280-G4-MT-Business-PC:~$
```

>start-dfs.sh

```
hdoop@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]
hdoop@admin1-HP-280-G4-MT-Business-PC:~$
```

Create a directory named by your name

>hadoop fs -mkdir /ullaas

>hadoop fs -ls /

2. Add two empty files into it >hadoop fs -touchz /ullaas/one.txt >hadoop fs -touchz /ullaas/two.txt

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /ullaas/one.txt
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /ullaas/two.txt
```

3. List all the files in the directory that you have created >hadoop fs -ls /ullaas

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /ullaas

Found 2 items
-rw-r--r-- 1 hdoop supergroup 0 2022-05-26 15:37 /ullaas/one.txt
-rw-r--r-- 1 hdoop supergroup 0 2022-05-26 15:37 /ullaas/two.txt
hdoop@admin1-HP-280-G4-MT-Business-PC:~$
```

4. Create one more directory by your usn and put that inside the directory of your name >hadoop fs -mkdir /ullaas/1NT19IS179 >hadoop fs -ls /ullaas

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mkdir /ullaas/1NT19IS179
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /ullaas
Found 3 items
drwxr-xr-x - hdoop supergroup 0 2022-05-26 15:38 /ullaas/1NT19IS179
-rw-r--r-- 1 hdoop supergroup 0 2022-05-26 15:37 /ullaas/one.txt
-rw-r--r-- 1 hdoop supergroup 0 2022-05-26 15:37 /ullaas/two.txt
```

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

```
>cat > ullaas_1NT19IS179.txt
```

>"Syntax to list Is command is hadoop fs -ls"

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ cat > ullaas_1NT19IS179.txt
"Syntax to list ls command is hadoop fs -ls"
^Z
[1]+ Stopped cat > ullaas_1NT19IS179.txt
```

► Put the file usn_name.txt in your hdfs directory called usn >hadoop fs -touchz /ullaas/1NT19IS179/1NT19IS179_ullaas.txt >hadoop fs -ls /ullaas/1NT19IS179

➤ Put empty file of hdfs into the local file system

>hadoop fs -copyToLocal /ullaas/1NT19IS179/1NT19IS179_ullaas.txt

>1s

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

>hadoop fs -mv /ullaas/two.txt /ullaas/1NT19IS179

>hadoop fs -ls /ullaas/1NT19IS179

► Experiment of cp command

>hadoop fs -cp /ullaas/one.txt /ullaas/1NT19IS179

>hadoop fs -ls /ullaas/1NT19IS179

▶ Display the total size of all the files in name directory

>hadoop fs -du /ullaas

>hadoop fs -du -s /ullaas

▶ Display each file size in usn directory Use stat command on name and usn directories >hadoop fs -du /ullaas/1NT19IS179

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -du /ullaas/1NT19IS179
0 0 /ullaas/1NT19IS179/1NT19IS179_ullaas.txt
0 0 /ullaas/1NT19IS179/one.txt
0 0 /ullaas/1NT19IS179/two.txt
```

➤ Illustrate the use of append command

cat > one.txt

Hello

^Z

[4]+ Stopped cat > one.txt

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ cat > one.txt
HELLO
^Z
[1]+ Stopped cat > one.txt
```

>hadoop fs -appendToFile one.txt /ullaas/1NT19IS179/two.txt >hadoop fs -cat /ullaas/1NT19IS179/two.txt

```
hdoop@admin1-HP-280-G4-MT-Business-PC:-$ hadoop fs -appendToFile one.txt /ullaas/1NT19IS179/two.txt

2022-05-26 15:54:25,794 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
hdoop@admin1-HP-280-G4-MT-Business-PC:-$ hadoop fs -cat /ullaas/1NT19IS179/two.txt

2022-05-26 15:56:12,100 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
HELLO
hdoop@admin1-HP-280-G4-MT-Business-PC:-$
```