NAME: P.SESHA HARSHINI

BATCH: C1

USN: 1NT19IS107 DT: 24-05-2022

Checking the 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 b3cbbb467e22ea829b3808f4b7b01d07e0bf3842
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-common-3.2.1.jar
```

1. Create a directory named by your name.

hadoop fs -mkdir /harshini hadoop fs -ls /

2. Add two empty files into it.

hadoop fs -touchz /harshini/empty1.txt hadoop fs -touchz /harshini/empty2.txt

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /harshini/empty1.txt
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -touchz /harshini/empty2.txt
```

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

hadoop fs -ls /harshini

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /harshini
Found 2 items
-rw-r--r-- 1 hdoop supergroup 0 2022-05-24 09:33 /harshini/empty1.txt
-rw-r--r-- 1 hdoop supergroup 0 2022-05-24 09:33 /harshini/empty2.txt
```

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

hadoop fs -mkdir /harshini/1NT19IS107 hadoop fs -ls /harshini

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -mkdir /harshini/1NT19IS107
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /harshini

Found 3 items
drwxr-xr-x - hdoop supergroup 0 2022-05-24 09:46 /harshini/1NT19IS107
-rw-r--r- 1 hdoop supergroup 0 2022-05-24 09:33 /harshini/empty1.txt
-rw-r--r- 1 hdoop supergroup 0 2022-05-24 09:33 /harshini/empty2.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 > harshini_1NT19IS107.txt Syntax to list Is command is hadoop fs -ls

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ cat > harshini_1NT19IS107.txt

Syntax to list ls command is hadoop fs -ls
^Z

[2]+ Stopped cat > harshini_1NT19IS107.txt
```

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

```
hadoop fs -touchz /harshini/1NT19IS107/1NT19IS107_harshini.txt hadoop fs -touchz /harshini/1NT19IS107/emp1.txt hadoop fs -ls /harshini/1NT19IS107
```

hadoop fs -copyToLocal /harshini/1NT19IS107/1NT19IS107_harshini.txt ls

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

hadoop fs -mv /harshini/empty2.txt /harshini/1NT19IS107 hadoop fs -ls /harshini/1NT19IS107

Experiment of cp command

hadoop fs -cp /harshini/empty1.txt /harshini/1NT19IS107 hadoop fs -ls /harshini/1NT19IS107

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -cp /harshini/empty1.txt /harshini/1NT19IS107
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -ls /harshini/1NT19IS107

Found 3 items
-rw-r--r-- 1 hdoop supergroup 0 2022-05-24 10:29 /harshini/1NT19IS107/1NT19IS107_harshini.txt
-rw-r--r-- 1 hdoop supergroup 0 2022-05-24 10:23 /harshini/1NT19IS107/emp1.txt
-rw-r--r-- 1 hdoop supergroup 0 2022-05-24 10:46 /harshini/1NT19IS107/empty1.txt
```

Display the total size of all files in name directory

hadoop fs -du /harshini

```
ndoopgadmin1-HP-280-G4-MT-Business-PC:-$ hadoop fs -moveFromLocal harshini_1NT19IS107.txt /harshini
2022-05-24 10:52:45,056 INFO sasl.SaslDataTransferclient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
hdoopgadmin1-HP-280-G4-MT-Business-PC:-$ hadoop fs -du /harshini
0 0 /harshini/INT19IS107
0 0 /harshini/empty1.txt
0 0 /harshini/empty2.txt
43 43 /harshini/harshini_1NT19IS107.txt
hdoopgadmin1-HP-280-G4-MT-Business-PC:-$ |
```

hadoop fs -du -s /harshini

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -du -s /harshini
43 43 /harshini
```

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

Illustrate the use of append command

cat > empty1.txt Hello World

hadoop fs -appendToFile empty1.txt /harshini/1NT19IS107/empty2.txt

hadoop fs -cat /harshini/1NT19IS107/empty2.txt

```
ndoop@admin1-HP-280-G4-MT-Business-PC:~$ cat > empty1.txt
Hello World
^Z
[1]+ Stopped cat > empty1.txt
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ hadoop fs -appendToFile empty1.txt /harshini/1NT19IS107/empty2.txt
2022-05-24 15:59:12,915 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
```

hdoop@admin1-HP-280-G4-MT-Business-PC:-\$ hadoop fs -cat /harshini/1NT19IS107/empty2.txt
2022-05-24 16:00:00,032 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Hello World