# Exp. 2

Adding files and directories, Retrieving files and Deleting files

Program:

## **Format HDFS**

mca@mca-V50t-13IMB:~\$ hadoop namenode -format

### **Start HDFS**

\$ start-all.sh

## Check that every process is running

\$ ips

#### **Monitor HDFS Cluster**

\$ hdfs dfsadmin -report

#### **HDFS Commands**

```
$ hdfs dfs -mkdir /MCAII //To create the folder "MCAII"

$ hdfs dfs -ls / // To list the files in the hadoop environment

$ ls //To display all the files in the system

$ hdfs dfs -ls -R / // Recursively displays entries in all subdirectories of a path

$ hdfs dfs -touchz /MCAII/sample.txt //touchz command creates a file in HDFS with file size equals to 0 byte.

$ gedit myFile1 // To create or edit the existing file

$ ls / Desktop // To list all the files in the Dsktop folder
```

put command - Copy file from the local file system to Hadoop file system
 \$ hdfs dfs -put ~/Desktop/welcome /MCAII // Copy the file welcome from local file system to hadoop under the folder MCAII

\$ hdfs dfs -ls -R /

copyFromLocal - Copy file from the local file system to Hadoop file system\$ hdfs dfs -copyFromLocal ~/sample2 /MCAII

\$ hdfs dfs -ls -R /

get (or) copyToLocal Command – Copy from hadoop file system to the local file system

// Copy all the files from MCAII to local file system folder "testFolder" \$ hdfs dfs -copyToLocal /MCAII ~/testFolder //Copy all the files from MCAII to local file system folder "testFolder" To display the contents of the file cat command \$ hadoop fs -cat /MCAII/sample2 //Display the contents of the file sample2 \$ hdfs dfs -cat /MCAII/sample2 //Display the contents of the file sample2 \$ cat ~/sample2 // display the file from the local file system To move the directory from from one location to another my command \$ hdfs dfs -mkdir /submca //To create the folder 'submca' \$ hdfs dfs -ls -R / \$ hdfs dfs -mv /submca /MCAII \$ hdfs dfs -ls -R / Copy files from one directory to another within HDFS cp command //Copy the file welcome to another folder hdfs dfs -cp /MCA/MCAII/welcome /MCA To remove a file from HDFS. This command does not rm command delete directories. For recursive delete, use command -rm -r \$ hadoop fs -rm /MCA/MCAII/sample.txt //remove the file sample.txt \$ hdfs dfs -rmdir /testMCA //remove the directory testMCA

\$ hdfs dfs -get /MCAII ~/testFolder