

Program 1: Implement the following file management tasks in Hadoop:

- i. Adding files and directories
- ii. Retrieving files
- iii. Deleting files

#### #Adding files and directories:

-start the Hadoop server

```
$ cd hadoop-3.4.0/sbin/
```

```
$ ./start-dfs.sh
```

```
$ ./start-yarn
```

```
$ jps
```

```
hadoop@hadoop-VirtualBox:~$ cd hadoop-3.2.1/sbin
hadoop@hadoop-VirtualBox:~/hadoop-3.2.1/sbin$ ./start-dfs.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [hadoop-VirtualBox]
hadoop@hadoop-VirtualBox:~/hadoop-3.2.1/sbin$ ./start-yarn.sh
Starting resourcemanager
Starting nodemanagers
hadoop@hadoop-VirtualBox:~/hadoop-3.2.1/sbin$ jps
4817 DataNode
5298 ResourceManager
5000 SecondaryNameNode
5450 NodeManager
4683 NameNode
5982 Jps
hadoop@hadoop-VirtualBox:~/hadoop-3.2.1/sbin$
```

```
$ sudo nano sample.txt
```

-write anything and click Ctrl+s and Ctrl+x to go out the editor

```
$hdfs dfs -mkdir /program1/
```

```
hadoop@NuvobookV1:~$ hdfs dfs -mkdir /program1/
```

```
$ hdfs dfs -copyFromLocal sample.txt /program1
```

```
hadoop@NuvobookV1:~$ hdfs dfs -copyFromLocal sample.txt /program1
hadoop@NuvobookV1:~$ |
```

\$hdfs dfs -ls /program1/

```
hadoop@NuvobookV1:~$ hdfs dfs -ls /program1/
Found 1 items
-rw-r--r-- 1 hadoop supergroup 24 2024-10-16 18:25 /program1/sample.txt
hadoop@NuvobookV1:~$ |
```

# Retrieving files

\$hdfs dfs -cat /program1/sample.txt

```
hadoop@NuvobookV1:~$ hdfs dfs -cat /program1/sample.txt
something written here
hadoop@NuvobookV1:~$ |
```

#deleting files and directory

\$hdfs dfs -rm /program1/sample.txt

```
hadoop@NuvobookV1:~$ hdfs dfs -rm /program1/sample.txt
Deleted /program1/sample.txt
hadoop@NuvobookV1:~$ |
```

\$hdfs dfs -rm -r /program1/

```
hadoop@NuvobookV1:~$ hdfs dfs -rm -r /program1/
Deleted /program1
hadoop@NuvobookV1:~$ |
```