## Hadoop Assignment

## Perform the following operations in HDFS file system

## 1. Create a directory in HDFS at given path(s).

## 2.  List the contents of a directory.

## 3. Upload and download a file in HDFS.

## 4. See contents of a file

## 5. Copy a file from source to destination

## 6. Copy a file from/To Local file system to HDFS

## 7. Move file from source to destination.

## 8. Remove a file or directory in HDFS.

## 9. Display last few lines of a file.

## 10. Display the aggregate length of a file.

## 1. Create a directory in HDFS at given path(s).

Usage:

hadoop fs -mkdir <paths>

Example:

hadoop fs -mkdir /user/saurzcode/dir1 /user/saurzcode/dir2

## 2.  List the contents of a directory.

Usage :

hadoop fs -ls <args>

Example:

hadoop fs -ls /user/saurzcode

## 3. Upload and download a file in HDFS.

**Upload:**

**hadoop fs -put:**

Copy single src file, or multiple src files from local file system to the Hadoop data file system

Usage:

hadoop fs -put <localsrc> ... <HDFS\_dest\_Path>

Example:

hadoop fs -put /home/saurzcode/Samplefile.txt /user/saurzcode/dir3/

**Download:**

**hadoop fs -get:**

Copies/Downloads files to the local file system

Usage:

hadoop fs -get <hdfs\_src> <localdst>

Example:

hadoop fs -get /user/saurzcode/dir3/Samplefile.txt /home/

## 4. See contents of a file

Same as unix cat command:

Usage:

hadoop fs -cat <path[filename]>

Example:

hadoop fs -cat /user/saurzcode/dir1/abc.txt

## 5. Copy a file from source to destination

This command allows multiple sources as well in which case the destination must be a directory.

Usage:

hadoop fs -cp <source> <dest>

Example:

hadoop fs -cp /user/saurzcode/dir1/abc.txt /user/saurzcode/dir2

## 6. Copy a file from/To Local file system to HDFS

**copyFromLocal**

Usage:

hadoop fs -copyFromLocal <localsrc> URI

Example:

hadoop fs -copyFromLocal /home/saurzcode/abc.txt /user/saurzcode/abc.txt

Similar to put command, except that the source is restricted to a local file reference.

**copyToLocal**

Usage:

hadoop fs -copyToLocal [-ignorecrc] [-crc] URI <localdst>

Similar to get command, except that the destination is restricted to a local file reference.

## 7. Move file from source to destination.

Note:- Moving files across filesystem is not permitted.

Usage :

hadoop fs -mv <src> <dest>

Example:

hadoop fs -mv /user/saurzcode/dir1/abc.txt /user/saurzcode/dir2

## 8. Remove a file or directory in HDFS.

Remove files specified as argument. Deletes directory only when it is empty

Usage :

hadoop fs -rm <arg>

Example:

hadoop fs -rm /user/saurzcode/dir1/abc.txt

**Recursive version of delete.**

Usage :

hadoop fs -rmr <arg>

Example:

hadoop fs -rmr /user/saurzcode/

## 9. Display last few lines of a file.

Similar to tail command in Unix.

Usage :

hadoop fs -tail <path[filename]>

Example:

hadoop fs -tail /user/saurzcode/dir1/abc.txt

## 10. Display the aggregate length of a file.

Usage :

hadoop fs -du <path>

Example:

hadoop fs -du /user/saurzcode/dir1/abc.txt