**Big Data (HDFS) Assignment**

Problem Statement: Using Command line of HDFS, perform following tasks.

1. Create a directory /hadoop/hdfs/ in HDFS

**Answer:**

**hdfs dfs -mkdir /hadoop/**

**hdfs dfs -mkdir /hadoop/hdfs/**

1. Create a temp directory in Hadoop. Run HDFS command to delete “temp” directory.

**Answer:**

**Hdfs dfs -mkdir /Hadoop/temp/**

**Hdfs dfs -rmr /Hadoop/temp/**

1. List all the files/directories for the given hdfs destination path.

**Answer:**

**Hdfs dfs -ls /Hadoop/hdfs/**

1. Command that will list the directories in /hadoop folder.

**Answer:**

**Hdfs dfs -ls /Hadoop/**

1. Command to list recursively all files in hadoop directory and all subdirectories in hadoop directory

**Answer:**

**hdfs dfs -ls -R /Hadoop/**

1. List all the directory inside /hadoop/hdfs/ directory which starts with 'dir'.

**Hdfs fs -ls /Hadoop/hdfs/ |grep ‘^d.\*dir’**

1. Create a temp.txt file. Copies this file from local file system to HDFS

**Answer:**

**touch temp.txt**

**hdfs dfs -put temp.txt /Hadoop/hdfs/**

1. Copies the file from HDFS to local file system.

**Answer:**

**Hdfs dfs -get /Hadoop/hdfs/myfile.txt /myfolder/**

1. Command to copy from local directory with the source being restricted to a local file reference.

**Answer:**

**Hdfs dfs -put /myfile1.txt /hadoop/hdfs/**

1. Command to copies to local directory with the source being restricted to a local file reference.

**Answer:**

**Hdfs dfs -get /hadoop/hdfs/ /myfile1.txt**

1. Command to move from local directory source to Hadoop directory.

**Answer:**

**Hdfs dfs -moveFromLocal /myfile1.txt /hadoop/hdfs/**

1. Deletes the directory and any content under it recursively.

**Answer:**

**Hdfs dfs -rm -r /Hadoop/hdfs/**

1. List the files and show Format file sizes in a human-readable fashion.

**Answer:**

**Hdfs dfs -du /Hadoop/hdfs/myfile.txt**

1. Take a source file and outputs the file in text format on the terminal.

**Answer:**

**Hdfs dfs -cat /Hadoop/hdfs/myfile.txt**

1. Display the content of the HDFS file test on your /user/hadoop2 directory.

**Answer:**

**Hdfs dfs -cat /user/hadoop2/myfile.txt**

1. Append the content of a local file test1 to a hdfs file test2.

**Answer:**

**hdfs dfs -appendToFile /test1 /hadoop/hdfs/test2**

1. Show the capacity, free and used space of the filesystem

**Answer:**

**hdfs dfsadmin -report**

1. Shows the capacity, free and used space of the filesystem. Add parameter Formats the sizes of files in a human-readable fashion.

**Answer:**

**hdfs dfs -df -h**

1. Show the amount of space, in bytes, used by the files that match the specified file pattern.

**Answer:**

**hdfs dfs -du -s /path/to/hadoop/hdfs/\* | grep 'sudhir'**

**hdfs dfs -du -s /hadoop/\*.txt**

1. Show the amount of space, in bytes, used by the files that match the specified file pattern. Formats the sizes of files in a human-readable fashion.

**Answer:**

**hadoop fs -du -h /hadoop/hdfs/\*.txt**

1. Check the health of the Hadoop file system.

**Answer:**

**hdfs fsck / -files -blocks -locations**

1. Command to turn off the safemode of Name Node.

**Answer:**

**hdfs dfsadmin -safemode leave**

1. HDFS command to format NameNode.

**Answer:**

**hdfs namenode -format**

1. Create a file named hdfstest.txt and change it number of replications to 3.

**Answer:**

**echo "This is a test file" | hdfs dfs-put - /hadoop/hdfs/hdfstest.txt**

**hdfs dfs -setrep -w 3 /hadoop/hdfs/hdfstest.txt**

1. Write command to display number of replicas for hdfstest.txt file.

**Hdfs dfs -stat %r /path/to/hdfstest.txt**

1. Write command to Display the status of file “hdfstest.txt” like block size, filesize in bytes.

**Answer:**

**hdfs dfs -stat %b %o /hadoop/hdfstest.txt**

1. Write HDFS command to change file permission from   
    rw – r – r to rwx-rw-x for hdfstest.txt.

**Answer:**

**hdfs dfs -chmod 765 /path/to/hdfstest.txt**