**Working with Hadoop Command-Line Interface (CLI) for File Operations**

# **Storing Data in HDFS:**

To store data in Hadoop Distributed File System (HDFS), use the ‘-put’ command:

**hdfs dfs -put /path/to/local/file /path/in/hdfs**

For example:

hdfs dfs -put C:\Users\mahes\OneDrive\Documents\test.txt /Mahesh

# **Reading Data from HDFS:**

To read data from HDFS, you can use the `-tail` command:

**hdfs dfs -tail /path/in/hdfs/file**

For example:

hdfs dfs -tail /mahesh/test.txt

# **Word Count Program in Hadoop:**

Running a word count program using MapReduce:

**hadoop jar /path/to/hadoop-mapreduce-examples.jar wordcount /input/path /output/path**

For example:

hadoop jar /path/to/hadoop-mapreduce-examples.jar wordcount /mahesh/test.txt /output/ans

# **File Operations in HDFS:**

## **Create a Directory:**

**hadoop fs -mkdir /path/to/directory**

## **Upload a File to HDFS:**

**hadoop fs -put /path/to/local/file /path/in/hdfs**

## **Read a File from HDFS:**

**hadoop fs -cat /path/in/hdfs/file**

## **Update a File in HDFS (by Overwriting):**

**hadoop fs -put /path/to/new/local/file /path/in/hdfs**

## **Delete a File from HDFS:**

**hadoop fs -rm /path/in/hdfs/file**

## **List Files/Directories in a Path:**

**hadoop fs -ls /path/in/hdfs**

## **Copy Files/Directories within HDFS:**

**hadoop fs -cp /source/path /destination/path**

## **Move/Rename Files/Directories within HDFS:**

**hadoop fs -mv /source/path /destination/path**

## **Display File/Directory Information:**

**hadoop fs -stat /path/in/hdfs/file\_or\_directory**

## **Change Permissions of a File/Directory:**

**hadoop fs -chmod <permissions> /path/in/hdfs/file\_or\_directory**

## **Display Disk Usage Information:**

**hadoop fs -du /path/in/hdfs**

## **Concatenate Files:**

**hadoop fs -getmerge /source/directory /local/destination/file**

## **Tail a File:**

**hadoop fs -tail /path/in/hdfs/file**