

Big Data Analytics Lab PMDS507P

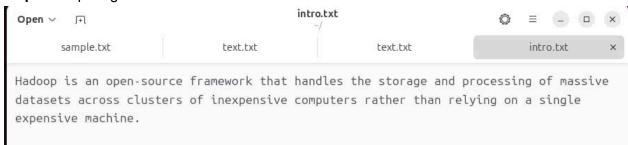
Name: **Tufan Kundu** Registration number: **24MDT0184**

Slot: L29+L30

Digital Assignment 4

Explain the procedure to run the Hadoop WordCount program using the in-built mapreduce-examples.jar.

Step 1: Preparing the text file



Step 2: Start HDFS and YARN and verify with ips

```
hduser@sjt217score051:-$ start-dfs.sh
Starting namenodes on [localhost]
localhost: namenode is running as process 10911. Stop it first and ensure /tmp/hadoop-hduser-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 11117. Stop it first and ensure /tmp/hadoop-hduser-datanode.pid file is empty before retry.
Starting secondary namenodes [sjt217score051]
sjt217score051: secondary namenode is running as process 11445. Stop it first and ensure /tmp/hadoop-hduser-secondarynamenode.pid file is empty before retry.
2025: 10-03 12:21:58,672 WARN utll.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable hduser@sjt2217score051:-$ start-yarn.sh
Starting resourcemanager
Starting nodemanagers
Starting nodemanagers
11445 SecondaryNameNode
12695 NodeManager
13132 Jps
11117 DataNode
12542 ResourceManager
10911 NameNode
```

Step 3: Creating the directory

```
hduser@sjt217score010:~$ hdfs dfs -rm -r /user/hduser/output
2025-10-03 12:28:09,381 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
rm: `/user/hduser/output': No such file or directory
hduser@sjt217score010:~$ hdfs dfs -rm -r /user/hduser/input
2025-10-03 12:28:18,104 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
rm: `/user/hduser/input': No such file or directory
hduser@sjt217score010:~$ hdfs dfs -mkdir -p /input
2025-10-03 12:28:36,464 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
hduser@sjt217score010:~$ hdfs dfs -put /home/hduser/Desktop/OperationHadoop/IntroToHad
oop.txt /input/
2025-10-03 12:29:05,046 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
hduser@sjt217score010:~$ hdfs dfs -ls /input/
2025-10-03 12:29:18,173 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 1 items
- FW- F-- F--
            1 hduser supergroup
                                        187 2025-10-03 12:29 /input/IntroToHadoop.txt
hduser@sjt217score010:~$
```

Step 4: Displaying the text file

hdfs dfs -cat /input/intro.txt

Step 5: Running wordcount by inbuilt mapreduce functions

hadoop jar

/home/hduser/hadoop/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.3.1.jar wordcount /input /output

```
### Add Description of the Company o
```

Step 6: Display the results

hdfs dfs -cat /output/part-r-00000