

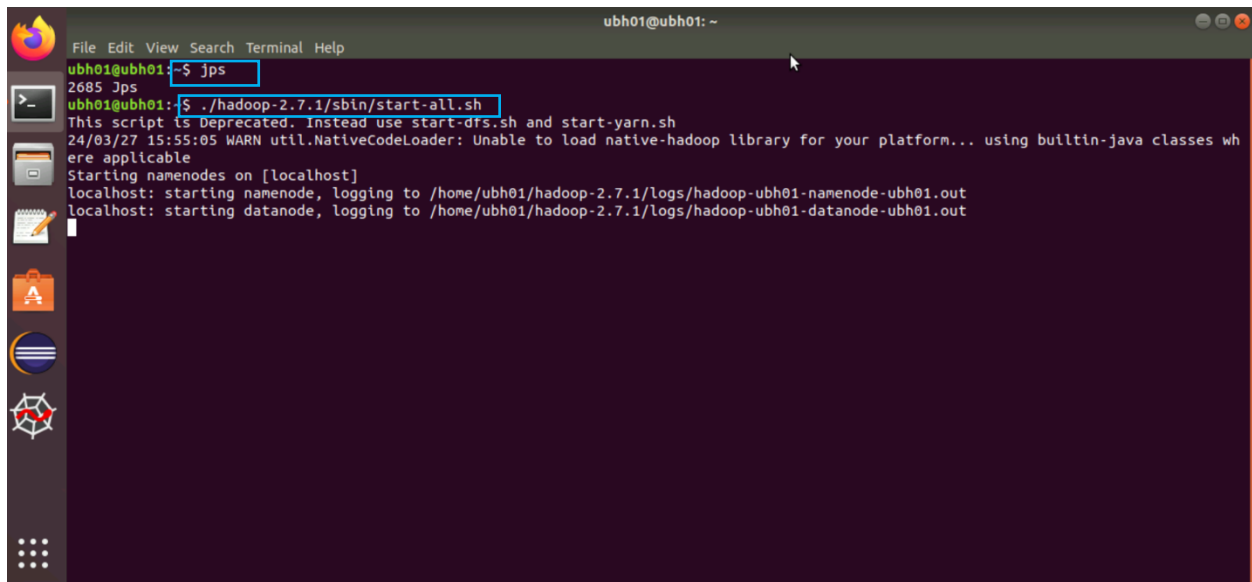


ASSIGNMENT-1

(HDFS)

Employee ID : 2320074

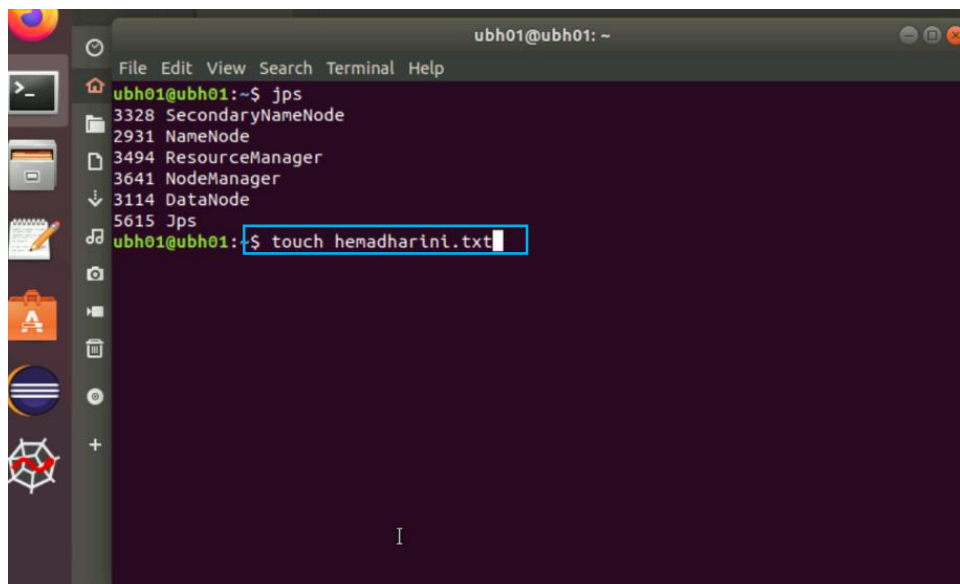
CSDAIA24AZ003



```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
ubh01@ubh01:~$ jps  
2685 Jps  
ubh01@ubh01:~$ ./hadoop-2.7.1/sbin/start-all.sh  
This script is deprecated. Instead use start-dfs.sh and start-yarn.sh  
24/03/27 15:55:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Starting namenodes on [localhost]  
localhost: starting namenode, logging to /home/ubh01/hadoop-2.7.1/logs/hadoop-ubh01-namenode-ubh01.out  
localhost: starting datanode, logging to /home/ubh01/hadoop-2.7.1/logs/hadoop-ubh01-datanode-ubh01.out
```

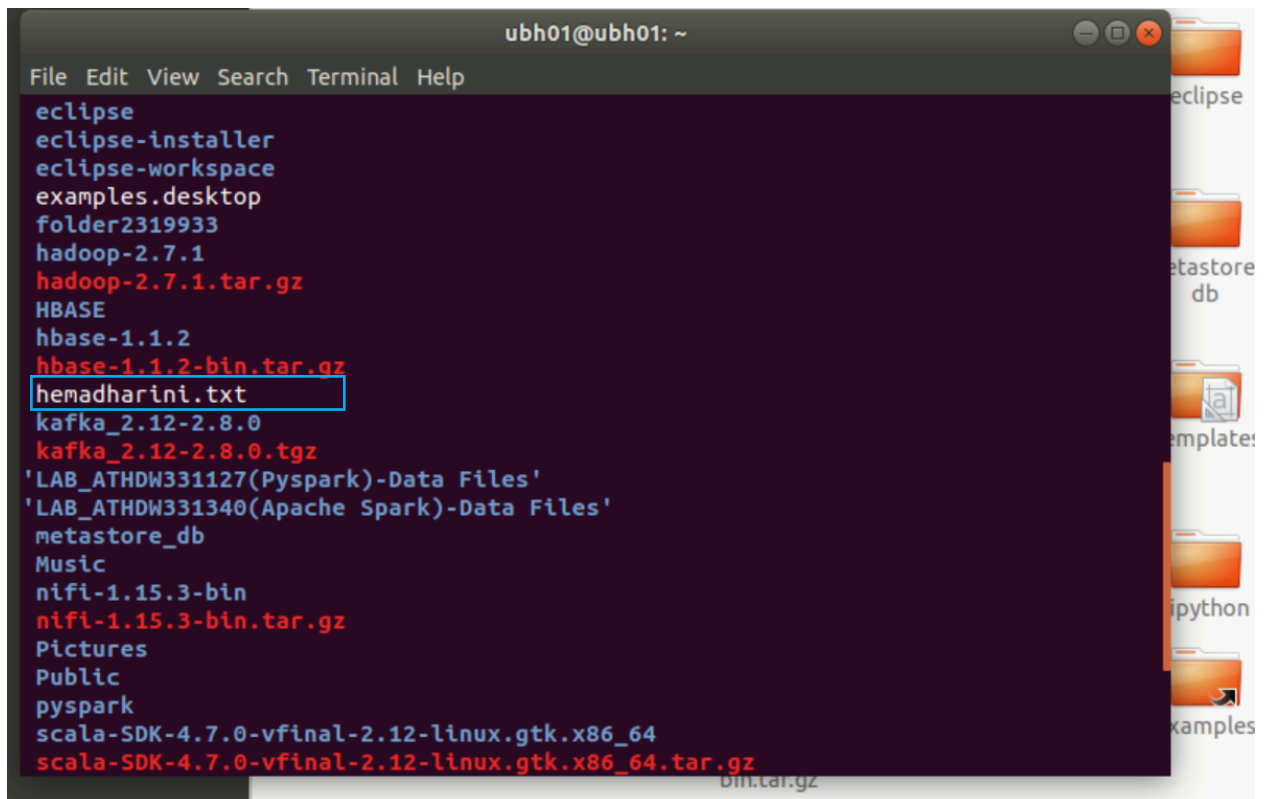
Step 1: Enter the `$ jps` command to start the session.

Step 2: Enter the `$./hadoop-2.7.1/sbin/start-all.sh` to start the hadoop in the virtual machine.



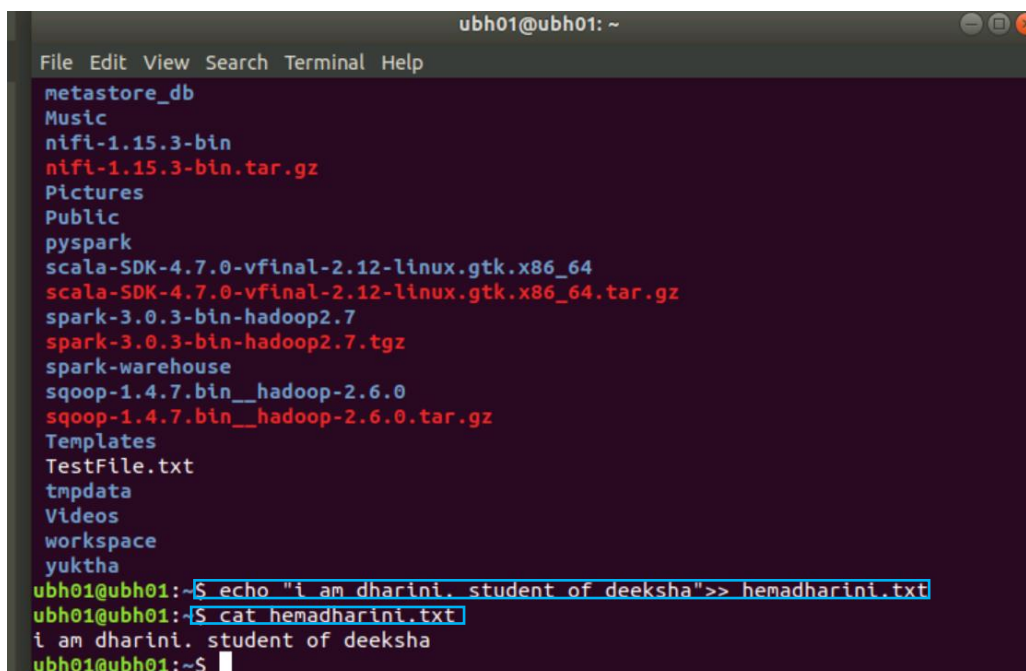
```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
ubh01@ubh01:~$ jps  
3328 SecondaryNameNode  
2931 NameNode  
3494 ResourceManager  
3641 NodeManager  
3114 DataNode  
5615 Jps  
ubh01@ubh01:~$ touch hemadharini.txt
```

Step 3: create a file in local system.



```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
eclipse  
eclipse-installer  
eclipse-workspace  
examples.desktop  
folder2319933  
hadoop-2.7.1  
hadoop-2.7.1.tar.gz  
HBASE  
hbase-1.1.2  
hbase-1.1.2-bin.tar.gz  
hemadharini.txt  
kafka_2.12-2.8.0  
kafka_2.12-2.8.0.tgz  
'LAB_ATHDW331127(Pyspark)-Data Files'  
'LAB_ATHDW331340(Apache Spark)-Data Files'  
metastore_db  
Music  
nifi-1.15.3-bin  
nifi-1.15.3-bin.tar.gz  
Pictures  
Public  
pyspark  
scala-SDK-4.7.0-vfinal-2.12-linux.gtk.x86_64  
scala-SDK-4.7.0-vfinal-2.12-linux.gtk.x86_64.tar.gz
```

Step 4: check whether the file has been created or not.



```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
metastore_db  
Music  
nifi-1.15.3-bin  
nifi-1.15.3-bin.tar.gz  
Pictures  
Public  
pyspark  
scala-SDK-4.7.0-vfinal-2.12-linux.gtk.x86_64  
scala-SDK-4.7.0-vfinal-2.12-linux.gtk.x86_64.tar.gz  
spark-3.0.3-bin-hadoop2.7  
spark-3.0.3-bin-hadoop2.7.tgz  
spark-warehouse  
sqoop-1.4.7.bin__hadoop-2.6.0  
sqoop-1.4.7.bin__hadoop-2.6.0.tar.gz  
Templates  
TestFile.txt  
tmpdata  
Videos  
workspace  
yuktha  
ubh01@ubh01:~$ echo "i am dharini. student of deeksha">> hemadharini.txt  
ubh01@ubh01:~$ cat hemadharini.txt  
i am dharini. student of deeksha  
ubh01@ubh01:~$
```

Step 5: Add the content into the text file you created and check whether the text has been added or not by reading that text file.

```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
ubh01@ubh01:~$ hdfs dfs -mkdir /hdfsddharini  
24/03/28 00:33:12 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /  
24/03/28 00:33:25 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 3 items  
drwxr-xr-x - ubh01 supergroup 0 2024-03-28 00:33 /hdfsddharini  
drwx-wx-wx - ubh01 supergroup 0 2022-01-20 18:25 /tmp  
drwxr-xr-x - ubh01 supergroup 0 2022-01-20 17:54 /user  
ubh01@ubh01:~$
```

Step 6: Now create a directory in HDFS.

Step 7: Check whether the directory has been created or not.

```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
ubh01@ubh01:~$ hdfs dfs -mkdir /hdfsddharini  
24/03/28 00:33:12 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /  
24/03/28 00:33:25 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 3 items  
drwxr-xr-x - ubh01 supergroup 0 2024-03-28 00:33 /hdfsddharini  
drwx-wx-wx - ubh01 supergroup 0 2022-01-20 18:25 /tmp  
drwxr-xr-x - ubh01 supergroup 0 2022-01-20 17:54 /user  
ubh01@ubh01:~$ hdfs dfs -put /home/ubh01/hemadharini.txt /hdfsddharini  
24/03/28 00:34:42 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /hdfsddharini  
24/03/28 00:35:00 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 ubh01 supergroup 33 2024-03-28 00:34 /hdfsddharini/hemadha  
rini.txt  
ubh01@ubh01:~$
```

Step 8: Now copy the text file from local system to HDFS.

Step 9: check whether the file has been copied to HDFS or not.


```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
ry for your platform... using builtin-java classes where applicable  
Found 3 items  
drwxr-xr-x - ubh01 supergroup 0 2024-03-28 00:33 /hdfsddharini  
drwx-wx-wx - ubh01 supergroup 0 2022-01-20 18:25 /tmp  
drwxr-xr-x - ubh01 supergroup 0 2022-01-20 17:54 /user  
ubh01@ubh01:~$ hdfs dfs -put /home/ubh01/hemadharini.txt /hdfsddharini  
24/03/28 00:34:42 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /hdfsddharini  
24/03/28 00:35:00 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 ubh01 supergroup 33 2024-03-28 00:34 /hdfsddharini/hemadha  
rini.txt  
ubh01@ubh01:~$ hdfs dfs -mv /hdfsddharini/hemadharini.txt /hdfsddharini/hdsp.txt  
24/03/28 00:36:18 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /hdfsddharini  
24/03/28 00:36:30 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 ubh01 supergroup 33 2024-03-28 00:34 /hdfsddharini/hdsp.tx  
t  
ubh01@ubh01:~$
```

Step 10: Now rename the text file in HDFS.

Step 11: check whether the text file has been renamed or not.

```
ubh01@ubh01: ~  
File Edit View Search Terminal Help  
24/03/28 00:35:00 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 ubh01 supergroup 33 2024-03-28 00:34 /hdfsddharini/hemadha  
rini.txt  
ubh01@ubh01:~$ hdfs dfs -mv /hdfsddharini/hemadharini.txt /hdfsddharini/hdsp.txt  
24/03/28 00:36:18 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$ hdfs dfs -ls /hdfsddharini  
24/03/28 00:36:30 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 ubh01 supergroup 33 2024-03-28 00:34 /hdfsddharini/hdsp.tx  
t  
ubh01@ubh01:~$ hdfs dfs -rm /hdfsddharini/hdsp.txt  
24/03/28 00:37:37 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
24/03/28 00:37:38 INFO fs.TrashPolicyDefault: Namenode trash configuration: Dele  
tion interval = 0 minutes, Empty interval = 0 minutes.  
Deleted /hdfsddharini/hdsp.txt  
ubh01@ubh01:~$ hdfs dfs -ls /hdfsddharini  
24/03/28 00:37:58 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
ubh01@ubh01:~$
```

Step 12: Now delete the file you created in HDFS.

Step 13: check whether the file has been deleted or not.