

## AVERAGE TEMPERATURE PROGRAM

### 1. Starting Hadoop Cluster

```
(base) lenovo@lenovo-ThinkPad-Edge-E431:~$ su hduser
Password:
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ cd\
>
hduser@lenovo-ThinkPad-Edge-E431:~$ start-all.sh
```

```
hduser@lenovo-ThinkPad-Edge-E431:~$ jps
15779 DataNode
15589 NameNode
16535 NodeManager
```

### 2. Copying the binary file to the Hadoop file system as a text file

```
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ hadoop fs -copyFromLocal /home/lenovo/Desktop/Nam-BDA-LAB/LAB8/1901 /rgs1/AT_test.txt
```

```
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ hadoop fs -ls /rgs1
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
20/12/20 09:04:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 5 items
-rw-r--r-- 1 hduser supergroup 888190 2020-12-20 09:04 /rgs1/AT_test.txt
drwxr-xr-x - hduser supergroup 0 2020-12-08 16:24 /rgs1/output
-rw-r--r-- 1 hduser supergroup 131 2020-12-08 15:22 /rgs1/test.txt
-rw-r--r-- 1 hduser supergroup 131 2020-12-08 15:31 /rgs1/test1.txt
-rw-r--r-- 1 hduser supergroup 131 2020-12-19 22:59 /rgs1/wc_test.txt
```

### 3. Running the JAR file

```
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ hadoop jar /home/lenovo/Desktop/Nam-BDA-LAB/LAB8/Average.jar AverageDriver /rgs1/AT_test.txt /rgs1/output2
```

### 4. Output

```
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ hadoop fs -ls /rgs1
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
20/12/20 09:10:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 6 items
-rw-r--r-- 1 hduser supergroup 888190 2020-12-20 09:04 /rgs1/AT_test.txt
drwxr-xr-x - hduser supergroup 0 2020-12-08 16:24 /rgs1/output
drwxr-xr-x - hduser supergroup 0 2020-12-20 09:09 /rgs1/output2
-rw-r--r-- 1 hduser supergroup 131 2020-12-08 15:22 /rgs1/test.txt
-rw-r--r-- 1 hduser supergroup 131 2020-12-08 15:31 /rgs1/test1.txt
-rw-r--r-- 1 hduser supergroup 131 2020-12-19 22:59 /rgs1/wc_test.txt
```

### 5. Stopping Hadoop

```
hduser@lenovo-ThinkPad-Edge-E431:/home/lenovo$ stop-all.sh
```