WORD COUNT 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
10051 NameNode
10244 DataNode
10645 ResourceManager
11462 Jps
10475 SecondaryNameNode
10991 NodeManager
```

2. Creating a file to count words

```
hi how are you
my name is namratha
i am from bangalore
i study in bms college of engineering
how is your family
how is your sister
```

3. Moving file to Hadoop system

```
hduser@lenovo-ThinkPad-Edge-E431:/$ hadoop fs -nkdir /rgs1
```

```
hduser@lenovo-ThinkPad-Edge-E431:~$ hadoop fs -ls /
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
20/12/19 22:52:50 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
Found 1 items
drwxr-xr-x   - hduser supergroup          0 2020-12-08 16:24 /rgs1
```

```
hduser@lenovo-ThinkPad-Edge-E431:~$ hadoop fs -copyFromLocal /home/lenovo/Desktop/Nam-BDA-LAB/WordCount/wordcount_file.txt /rgs1/wc_test.txt
```

4. Running the JAR file

```
hduser@lenovo-ThinkPad-Edge-E431:~$ hadoop jar /home/lenovo/Desktop/Nam-BDA-LAB/WordCount/wordcount.jar WordCount /rgs1/wc_test.txt /rgs1/outp
ut/
```

5. Output

```
hduser@lenovo-ThinkPad-Edge-E431:~$ 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
20/12/19 23:04:18 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
Found 4 items
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
```

```
hduser@lenovo-ThinkPad-Edge-E431:~$ hadoop fs -cat /rgs1/output/part-r-00000
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
20/12/19 23:07:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
am      1
are     1
bangalore       1
bms     1
college 1
engineering     1
family  1
from    1
hi      1
how     3
```

6. Stopping Hadoop

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