

Task 1:

Check whether /user/acadgild directory exists or not in the HDFS.

If it doesn't exist, then create this.

Create a directory /user/acadgild/hadoop.

Using the Hadoop fs -ls command checked for the existing of the directories and since not found, created the directory and the subdirectories using the Hadoop fs -mkdir command

```
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/03/06 23:11:44 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop-2.6.0/logs/hadoop-aca
dgild-namenode-localhost.localdomain.out
localhost: starting datanode, logging to /usr/local/hadoop-2.6.0/logs/hadoop-aca
dgild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop-2.6.0/logs/had
oop-acadgild-secondarynamenode-localhost.localdomain.out
18/03/06 23:12:03 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop-2.6.0/logs/yarn-acadgild-
resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /usr/local/hadoop-2.6.0/logs/yarn-ac
adgild-nodemanager-localhost.localdomain.out
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:12:24 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
ls: `/user/acadgild/hadoop': No such file or directory
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild

18/03/06 23:12:33 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 2 items
drwxr-xr-x - acadgild supergroup          0 2015-11-17 02:03 /user/acadgild/oo
zie-acad
drwxr-xr-x - acadgild supergroup          0 2015-11-17 02:00 /user/acadgild/sh
are
[acadgild@localhost ~]$
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/03/06 23:13:00 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:13:08 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/03/06 23:13:28 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 - acadgild supergroup          0 2018-03-06 23:13 /user/acadgild/ha
doo
drwxr-xr-x - acadgild supergroup          0 2015-11-17 02:03 /user/acadgild/oo
zie-acad
drwxr-xr-x - acadgild supergroup          0 2015-11-17 02:00 /user/acadgild/sh
are
```

Task 2:

Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

Whatever we type on screen should get appended to the file.

Try to type (on screen) few lines from any online article or textbook.

Created the file word-count.txt using the Hadoop fs -touchz command

Created a file in the local fs using cat command and then using Hadoop -put command copied to the HDFS

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/03/06 23:14:50 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:15:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r-- 1 acadgild supergroup 0 2018-03-06 23:14 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$ echo "hello" | hadoop fs -put -d -f - /user/acadgild/hadoop/word-count.txt
-put: Illegal option -d
Usage: hadoop fs [generic options] -put [-f] [-p] [-l] <localsrc> ... <dst>
[acadgild@localhost ~]$ echo "hello" | hadoop fs -put -f - /user/acadgild/hadoop/word-count.txt
18/03/06 23:29:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/03/06 23:30:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
hello
[acadgild@localhost ~]$ cat > inputfromstdin.txt
There will be two Name Nodes. One active and one passive. If the name node which is active fails then the one which is passive becomes active. This is called High availability.^C
[acadgild@localhost ~]$ hadoop fs -put inputfromstdin.txt /user/acadgild/hadoop
18/03/06 23:34:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
put: `inputfromstin.txt': No such file or directory
[acadgild@localhost ~]$ hadoop fs -put inputfromstdin.txt /user/acadgild/hadoop
18/03/06 23:35:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:35:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 0 2018-03-06 23:35 /user/acadgild/hadoop/inputfromstdin.txt
-rw-r--r-- 1 acadgild supergroup 6 2018-03-06 23:29 /user/acadgild/hadoop/word-count.txt
```

```
[acdgild@localhost ~]$ hadoop fs -rm /user/acdgild/hadoop/word-count.txt
18/03/06 23:39:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
rm: `/user/acdgild/hadoop/word-count.txt': No such file or directory
[acdgild@localhost ~]$ hadoop fs -rm /user/acdgild/hadoop/word-count.txt
18/03/06 23:39:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/03/06 23:39:34 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user/acdgild/hadoop/word-count.txt
[acdgild@localhost ~]$ hadoop fs -mv /user/acdgild/hadoop/inputfromstdin.txt /user/acdgild/hadoop/word-count.txt
18/03/06 23:40:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acdgild@localhost ~]$ hadoop fs -ls /user/acdgild/hadoop
18/03/06 23:41:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r--  1 acdgild supergroup          0 2018-03-06 23:35 /user/acdgild/hadoop/word-count.txt
```

Task 3:

Create a file max-temp.txt in local FS.

Put some 10-15 records of date and temperature example:

dd-mm-yyyy,temperature

Example:

10-01-1990,10

10-02-1991,20

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Move this file to HDFS at /user/acdgild/hadoop.

Created a file using the cat command in the local fs, added 20-25 lines of date and temp info and using the Hadoop fs -put command copied the file to the desired directory

```
[acadgild@localhost ~]$ cat > max-temp.txt
```

```
01-01-2018,15
02-01-2018,14
03-01-2018,14
04-01-2018,16
05-01-2018,15
06-01-2018,13
07-01-2018,14
08-01-2018,19
09-01-2018,11
10-01-2018,14
11-01-2018,15
12-01-2018,13
13-01,2018,15
14-01-2018,12
15-01-2018,13
^C
```

```
[acadgild@localhost ~]$ hadoop fs -put max-temp.txt /user/acadgild/hadoop
18/03/06 23:46:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:46:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--  1 acadgild supergroup      209 2018-03-06 23:46 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--  1 acadgild supergroup       0 2018-03-06 23:35 /user/acadgild/hadoop/word-count.txt
```

Task 4:

Change the permission of the file /user/acadgild/hadoop/max-temp.txt, such that only the owner and

the group members have full control over the file.

Others do not have any control over it.

Changed the permissions of the file using the Hadoop fs -chmod command and provided complete control to user and group and read only permission to others. Verified the permission status using the Hadoop fs -ls command

```

[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/06 23:46:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 209 2018-03-06 23:46 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 0 2018-03-06 23:35 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$ hadoop fs -chmod 774 /user/acadgild/hadoop/max-temp.txt
18/03/07 00:01:51 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/07 00:02:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rwxrwxr-- 1 acadgild supergroup 209 2018-03-06 23:46 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 0 2018-03-06 23:35 /user/acadgild/hadoop/word-count.txt

```