

## Assignment - 2

### Task 1:

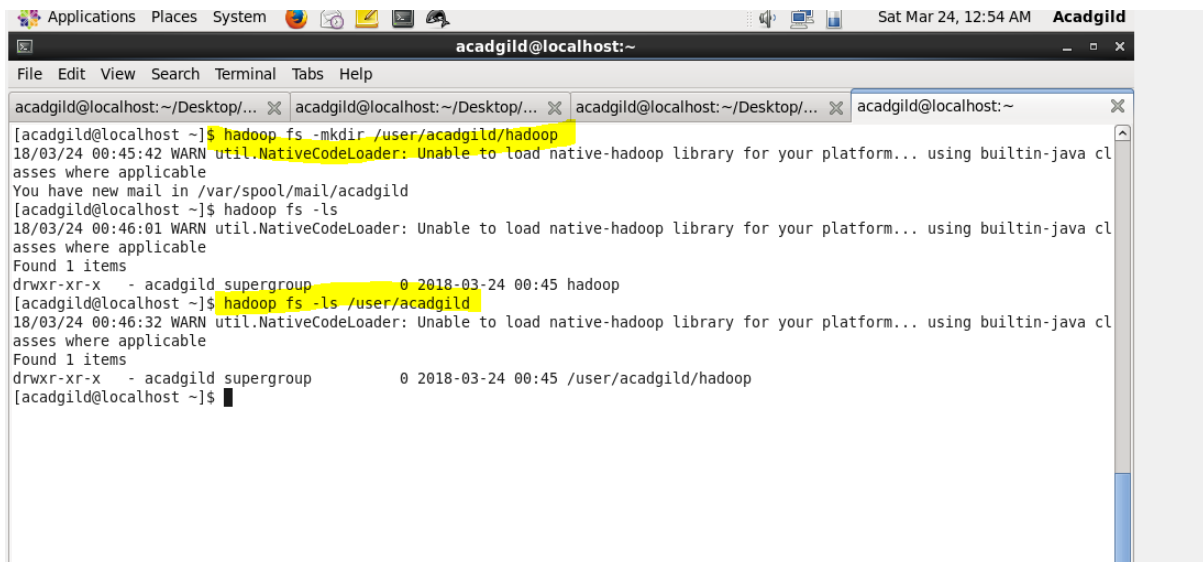
Check whether /user/acadgild directory exists or not in the HDFS.

If it doesn't exist, then create this.

```
[acadgild@localhost ~]$ hadoop fs -ls /
18/03/24 00:31:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 9 items
-rw-r--r-- 1 acadgild supergroup 45 2018-03-21 17:51 /assignment1.txt
-rw-r--r-- 1 acadgild supergroup 1056906185 2018-03-02 03:51 /file.txt
drwxr-xr-x - acadgild supergroup 0 2018-03-01 18:51 /gunjandir
drwxr-xr-x - acadgild supergroup 0 2018-03-03 01:41 /hadoopdata
drwxr-xr-x - acadgild supergroup 0 2018-03-06 23:20 /myoutput
drwxr-xr-x - acadgild supergroup 0 2018-02-02 12:49 /sqoopout111
-rw-r--r-- 1 acadgild supergroup 35 2018-02-25 13:10 /test.txt
drwxrwx--- - acadgild supergroup 0 2018-03-23 21:05 /tmp
drwxr-xr-x - acadgild supergroup 0 2018-02-09 14:50 /user
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cd user/
bash: cd: user/: No such file or directory
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user
18/03/24 00:37:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
drwxr-xr-x - acadgild supergroup 0 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild
18/03/24 00:42:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user
18/03/24 00:42:41 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 2 items
drwxr-xr-x - acadgild supergroup 0 2018-03-24 00:42 /user/acadgild
drwxr-xr-x - acadgild supergroup 0 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$
```

1 Item in Tra

Create a directory /user/acadgild/Hadoop :



### 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.

➔ Create file on local VM

```
[acadgild@localhost ~]$ nano wordcount.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls -l
total 132
-rw-rw-r--. 1 acadgild acadgild 45 Mar 21 17:44 assignment1.txt
drwxr-xr-x. 6 acadgild acadgild 4096 Mar 3 00:02 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxr-xr-x. 2 acadgild acadgild 4096 Mar 23 23:32 Downloads
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxrwxr-x. 2 acadgild acadgild 4096 Feb 25 11:28 Hadoop Examples
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
-rw-rw-r--. 1 acadgild acadgild 14974 Mar 3 00:44 pig_1520015415405.log
-rw-rw-r--. 1 acadgild acadgild 8400 Mar 3 00:51 pig_1520018190655.log
-rw-rw-r--. 1 acadgild acadgild 2800 Mar 3 00:54 pig_1520018660728.log
-rw-rw-r--. 1 acadgild acadgild 2800 Mar 3 00:58 pig_1520018842544.log
-rw-rw-r--. 1 acadgild acadgild 2800 Mar 3 01:07 pig_1520019387075.log
-rw-rw-r--. 1 acadgild acadgild 2800 Mar 3 01:18 pig_1520019991609.log
-rw-rw-r--. 1 acadgild acadgild 4300 Mar 7 22:27 pig_1520441642374.log
-rw-rw-r--. 1 acadgild acadgild 5600 Mar 7 22:39 pig_1520441980146.log
-rw-rw-r--. 1 acadgild acadgild 5600 Mar 23 20:58 pig_1521818552663.log
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
-rw-rw-r--. 1 acadgild acadgild 28 Feb 25 12:48 test1.txt
-rw-rw-r--. 1 acadgild acadgild 36 Feb 25 13:28 test.txt
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
-rw-rw-r--. 1 acadgild acadgild 46 Mar 24 01:01 wordcount.txt
```

Move file on Hadoop folder:

```
[acadgild@localhost ~]$ hadoop fs -put /home/acadgild/wordcount.txt /user/acadgild/hadoop
18/03/24 01:06:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/24 01:07:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rw-r--r-- 1 acadgild supergroup 46 2018-03-24 01:07 /user/acadgild/hadoop/wordcount.txt
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/wordcount.txt
18/03/24 01:09:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
hello this is wordcount file for assignment 2
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

Append file:

```
[acagild@localhost Desktop]$ hadoop fs -getmerge /user/acagild/hadoop merged.txt
18/03/24 19:06:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acagild
[acagild@localhost Desktop]$ hadoop fs -ls user/acagild/hadoop
18/03/24 19:07:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
ls: 'user/acagild/hadoop': No such file or directory
You have new mail in /var/spool/mail/acagild
[acagild@localhost Desktop]$ hadoop fs -ls /user/acagild/hadoop
18/03/24 19:07:50 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 acagild supergroup 169 2018-03-24 17:07 /user/acagild/hadoop/max-temp.txt
-rw-r--r-- 1 acagild supergroup 46 2018-03-24 01:07 /user/acagild/hadoop/wordcount.txt
[acagild@localhost Desktop]$ ls -l
total 1032284
-rw-rw-r-- 1 acagild acagild 1287 Dec 29 15:15 bashrc.txt~
-rw-rw-r-- 1 acagild acagild 1056906185 Mar 2 15:37 file.txt
drwxrwxr-x 2 acagild acagild 4096 Mar 3 00:02 HadoopData
drwxrwxr-x 2 acagild acagild 4096 Mar 2 08:39 HadoopExamples
drwxrwxr-x 2 acagild acagild 4096 Mar 24 11:51 merge
-rw-r--r-- 1 acagild acagild 215 Mar 24 19:06 merged.txt
drwxrwxr-x 2 acagild acagild 4096 Feb 2 12:45 README
-rw-rw-r-- 1 acagild acagild 115646 Feb 23 00:45 Screenshot.png
drwxrwxr-x 2 acagild acagild 4096 Mar 24 17:03 TestHadoop
You have new mail in /var/spool/mail/acagild
[acagild@localhost Desktop]$ cat merged.txt
10-01-1990,10
10-02-1991,20
10-02-1992,30
10-02-1994,40
10-02-1995,50
10-02-1996,60
10-02-1997,70
10-02-1998,80
10-02-1999,90
10-02-2000,00
10-02-2001,020
10-02-2002,20
hello this is wordcount file for assignment 2
```

### 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

```
[acagild@localhost TestHadoop]$ nano max-temp.txt
You have new mail in /var/spool/mail/acagild
[acagild@localhost TestHadoop]$ ls -l
total 319524
-rw-rw-r-- 1 acagild acagild 12 Mar 3 00:15 A.txt
-rw-rw-r-- 1 acagild acagild 12 Mar 3 00:15 B.txt
-rw-rw-r-- 1 acagild acagild 327155712 Mar 3 01:40 file327.txt
-rw-rw-r-- 1 acagild acagild 169 Mar 24 17:03 max-temp.txt
-rw-rw-r-- 1 acagild acagild 4361 Mar 2 21:50 mywordcount.jar
-rw-rw-r-- 1 acagild acagild 5074 Mar 6 23:29 pig_1520359169468.log
-rw-rw-r-- 1 acagild acagild 31 Mar 2 08:57 test.txt
[acagild@localhost TestHadoop]$
```

Put into HDFS:

```
[acagild@localhost TestHadoop]$ hadoop fs -put max-temp.txt /user/acagild/hadoop/
18/03/24 17:07:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
```

Check File on user/acagild/Hadoop folder:

```
[acagild@localhost TestHadoop]$ hadoop fs -ls /user/acagild/hadoop
18/03/24 17:10:17 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 acagild supergroup 169 2018-03-24 17:07 /user/acagild/hadoop/max-temp.txt
-rw-r--r-- 1 acagild supergroup 46 2018-03-24 01:07 /user/acagild/hadoop/wordcount.txt
You have new mail in /var/spool/mail/acagild
[acagild@localhost TestHadoop]$ hadoop fs -cat /user/acagild/hadoop/max-temp.txt
18/03/24 17:10:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-02-1991,20
10-02-1992,30
10-02-1994,40
10-02-1995,50
10-02-1996,60
10-02-1997,70
10-02-1998,80
10-02-1999,90
10-02-2000,00
10-02-2001,020
10-02-2002,20
[acagild@localhost TestHadoop]$
```

#### 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.

```
Found 2 items
-rw-r--r-- 1 acadgild supergroup 169 2018-03-24 17:07 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 46 2018-03-24 01:07 /user/acadgild/hadoop/wordcount.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost TestHadoop]$ hadoop fs -cat /user/acadgild/hadoop/max-temp.txt
18/03/25 11:49:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-02-1991,20
10-02-1992,30
10-02-1994,40
10-02-1995,50
10-02-1996,60
10-02-1997,70
10-02-1998,80
10-02-1999,90
10-02-2000,00
10-02-2001,020
10-02-2002,20
[acadgild@localhost TestHadoop]$ Hadoop fs -chmod u=rwx,g=rwx,o=r /user/acadgild/hadoop/max-temp.txt
-bash: Hadoop: command not found
[acadgild@localhost TestHadoop]$ hadoop fs -chmod u=rwx,g=rwx,o=r /user/acadgild/hadoop/max-temp.txt
18/03/25 14:44:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost TestHadoop]$ hadoop fs -cat /user/acadgild/hadoop/max-temp.txt
18/03/25 14:46:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-02-1991,20
10-02-1992,30
10-02-1994,40
10-02-1995,50
10-02-1996,60
10-02-1997,70
10-02-1998,80
10-02-1999,90
10-02-2000,00
10-02-2001,020
10-02-2002,20
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost TestHadoop]$ hadoop fs -ls /user/acadgild/hadoop
18/03/25 14:46:41 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 169 2018-03-24 17:07 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 46 2018-03-24 01:07 /user/acadgild/hadoop/wordcount.txt
```