Assignment - 2
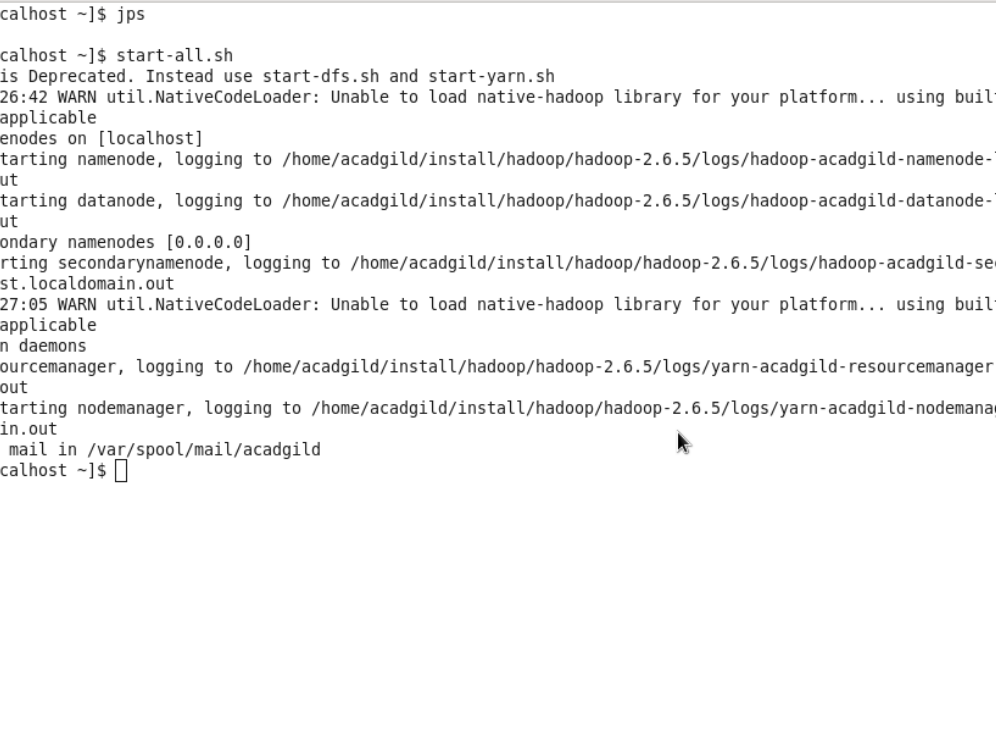
Task 1:

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.

Solution:

Starting all the hadoop services.

Creating the required folder.

```
[acadgild@localhost ~]$ hadoop fs -ls
18/10/28 08:35:59 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 2018-09-30 01:08 _sqoop
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/10/28 08:36:59 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 ~]$ █
```

Student Dashboard - Mozilla Firefox
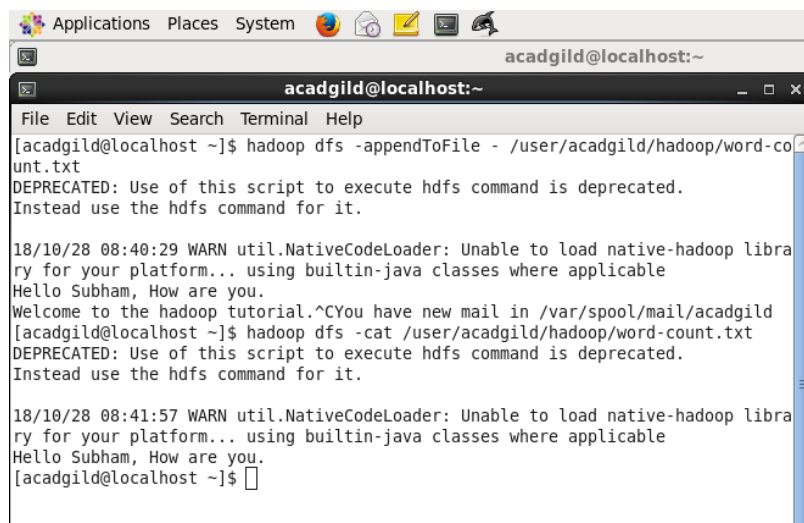
[Student Dashboard - ...]   acadgild@localhost:~

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.

Solution : Performing the required action ->>

Applications Places System

acadgild@localhost:~

acadgild@localhost:~

File Edit View Search Terminal Help

```
[acadgild@localhost ~]$ hadoop dfs -appendToFile - /user/acadgild/hadoop/word-co
unt.txt
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

18/10/28 08:40:29 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Hello Subham, How are you.
Welcome to the hadoop tutorial.^CYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop dfs -cat /user/acadgild/hadoop/word-count.txt
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

18/10/28 08:41:57 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Hello Subham, How are you.
[acadgild@localhost ~]$ ▯
```

Task 3:

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

Put some 10-15 records of date and temperature example:
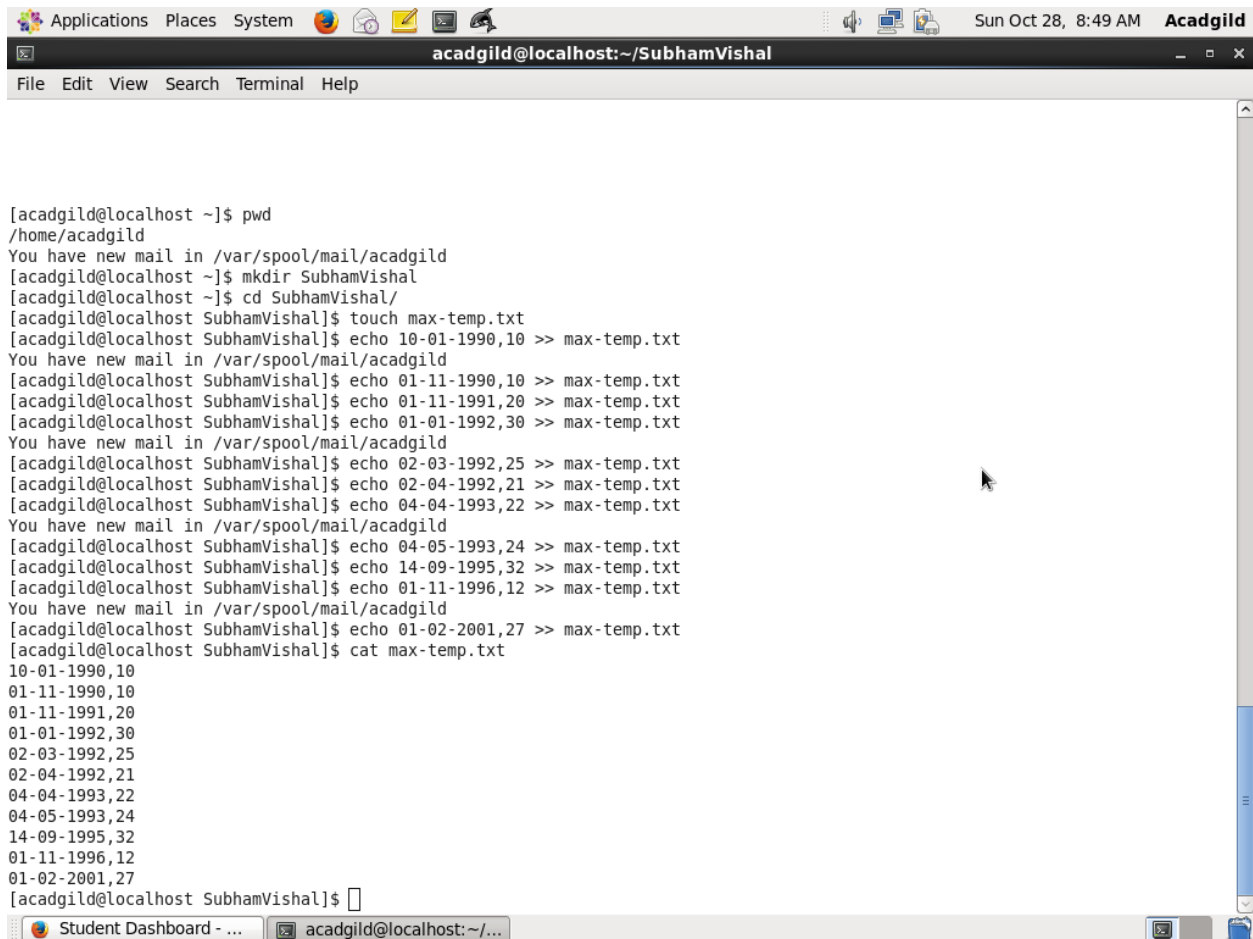
dd-mm-yyyy,temperature

Example:

10-01-1990,10

10-02-1991,20.

Solution :

Performing the required action →


```
[acadgild@localhost ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ mkdir SubhamVishal
[acadgild@localhost ~]$ cd SubhamVishal/
[acadgild@localhost SubhamVishal]$ touch max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 10-01-1990,10 >> max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost SubhamVishal]$ echo 01-11-1990,10 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 01-11-1991,20 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 01-01-1992,30 >> max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost SubhamVishal]$ echo 02-03-1992,25 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 02-04-1992,21 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 04-04-1993,22 >> max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost SubhamVishal]$ echo 04-05-1993,24 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 14-09-1995,32 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ echo 01-11-1996,12 >> max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost SubhamVishal]$ echo 01-02-2001,27 >> max-temp.txt
[acadgild@localhost SubhamVishal]$ cat max-temp.txt
10-01-1990,10
01-11-1990,10
01-11-1991,20
01-01-1992,30
02-03-1992,25
02-04-1992,21
04-04-1993,22
04-05-1993,24
14-09-1995,32
01-11-1996,12
01-02-2001,27
[acadgild@localhost SubhamVishal]$
```

Move this file to HDFS at /user/acadgild/hadoop -→

```
01-11-1990,10
01-11-1991,20
01-01-1992,30
02-03-1992,25
02-04-1992,21
04-04-1993,22
04-05-1993,24
14-09-1995,32
01-11-1996,12
01-02-2001,27
[acadgild@localhost SubhamVishal]$ hadoop fs -put max-temp.txt /user/acadgild/hadoop/
18/10/28 08:50:57 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 SubhamVishal]$ hadoop fs -ls /user/acadgild/hadoop/
18/10/28 08:51:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup        154 2018-10-28 08:50 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup         28 2018-10-28 08:41 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost SubhamVishal]$ 
```
| Student Dashboard - … | acadgild@localhost:~/… |

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.

Solution : Performing the required action →

```
[acadgild@localhost SubhamVishal]$ hadoop fs -ls /user/acadgild/hadoop/
18/10/28 08:51:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup        154 2018-10-28 08:50 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup         28 2018-10-28 08:41 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost SubhamVishal]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-tmp.txt
18/10/28 08:54:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
chmod: `/user/acadgild/hadoop/max-tmp.txt': No such file or directory
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost SubhamVishal]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/10/28 08:54:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost SubhamVishal]$ hadoop fs -ls /user/acadgild/hadoop/max-temp.txt
18/10/28 08:55:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
-rwxrwx---   1 acadgild supergroup        154 2018-10-28 08:50 /user/acadgild/hadoop/max-temp.txt
[acadgild@localhost SubhamVishal]$ 
```
| Student Dashboard - … | acadgild@localhost:~/… | [acadgild@localhost:~] |