Assignment Day 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.

Ans:

hadoop fs -ls /user/acadgild

(Lists files or folders (if exists) within /user/acadgild)

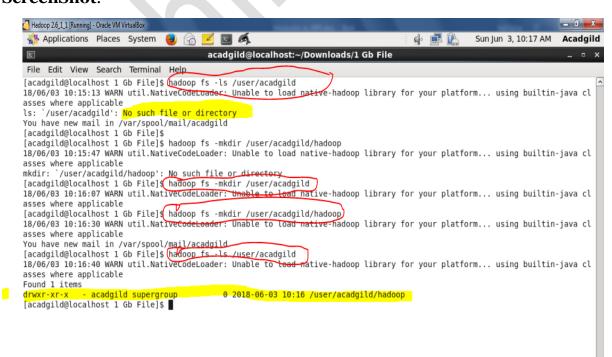
hadoop fs -mkdir /user/acadgild

(creates directory **acadgild** within /user/)

hadoop fs -mkdir /user/acadgild/hadoop

(creates directory **hadoop** within /user/acadgild/)

ScreenShot:



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.

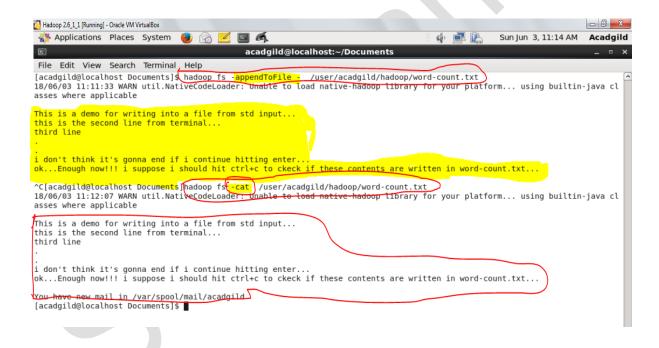
Try to type (on screen) few lines from any online article or textbook.

Ans:

hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt

(Creates s file "word-count.txt" within /user/acadgild/hadoop/ & the "-" after appendToFile allows the input from stdin i.e. Terminal directly to be written into the file word-count.txt Press 'ctrl+c' to exit writing into the file)

ScreenShot:



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

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

Ans:

nano max-temp.txt

(Creates a file max-temp.txt. Have input 15 dates in format dd-mm-yyyy,temperature)

hadoop fs -moveFromLocal max-temp.txt /user/acadgild/hadoop/

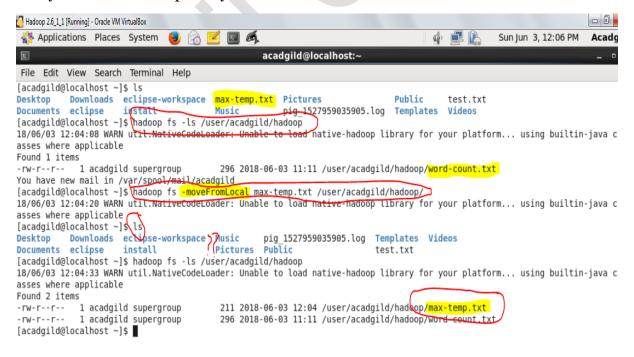
(Moves the file from **local** file system at the path where max-temp.txt file is located onto hadoop cluster **/user/acadgild/hadoop/**)

ScreenShot:

Creation of file max-temp.txt & displaying that /user/acadgild/hadoop/ consists of only one file in the beginning.

```
Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox
                                                                                                                                                                          _ 0 X
  Applications Places System
                                                                                                                           d, e
                                                                                                                                              Sun Jun 3, 11:45 AM
                                                                                                                                                                         Acadgild
File Edit View Search Terminal Help
10-04-1993,23
10-05-1994,20
10-06-1995,30
10-07-1996,20
10-08-1997,80
10-09-1998,20
10-10-1999,70
10-11-2001,20
10-12-1994,60
10-01-1998,50
10-02-1992,80
10-03-1996,30
[acadgild@localhost ~]$ hadoop f
18/06/03 11:44:16 WARN util.Nati
asses where applicable
Found 1 items
                                  hadoop fs -ls /user/acadgild/hadoop/
                                                                                load native-hadoop library for your platform... using builtin-java cl
Tru-r-- 1 acadgild supergroup 296
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ■
                                                            296 2018-06-03 11:11 /user/acadgild/hadoop/word-count.txt
                                                                                                                                                  I
```

After moving the file from local onto hadoop. File max-temp.txt relocates from local file system onto hadoop file system.



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.

Ans:

hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt

(Octal method of changing permission of a file. From left to right permission is set for user, group, other respectively.

7-> All permission, o-> No Permission)

ScreenShot:

