

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)

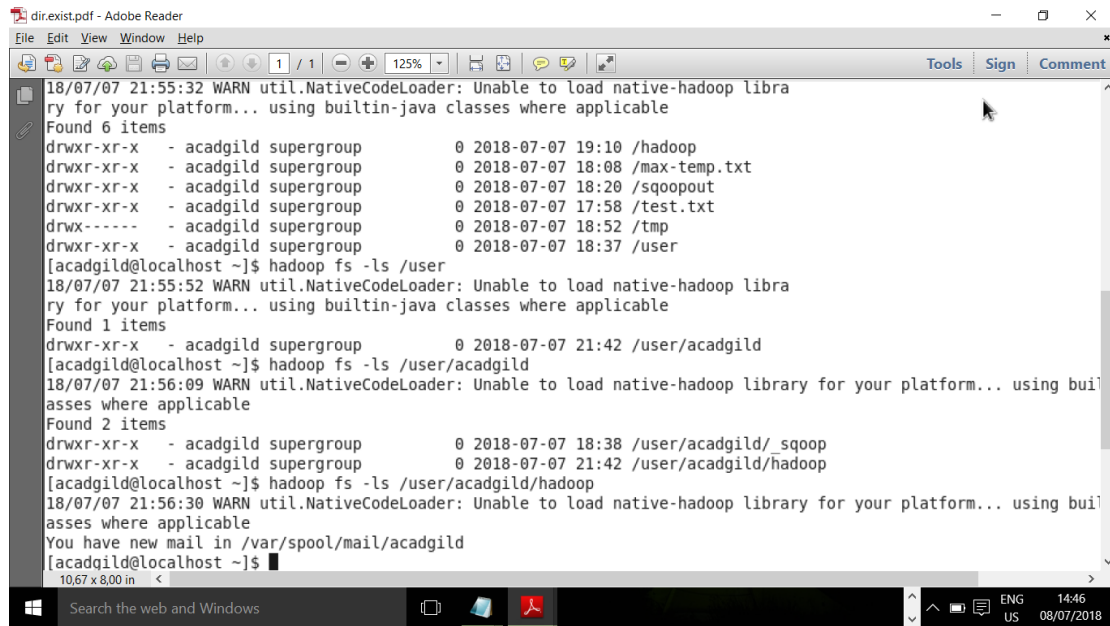
```
hadoop fs -mkdir/user/acadgild
```

(creates directory acadgild within /user/)

```
hadoop fs -mkdir /user/acadgild/hadoop
```

(creates directory hadoop within /user/acadgild/)

ScreenShot:



```
18/07/07 21:55:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 6 items
drwxr-xr-x - acadgild supergroup          0 2018-07-07 19:10 /hadoop
drwxr-xr-x - acadgild supergroup          0 2018-07-07 18:08 /max-temp.txt
drwxr-xr-x - acadgild supergroup          0 2018-07-07 18:20 /sqoopout
drwxr-xr-x - acadgild supergroup          0 2018-07-07 17:58 /test.txt
drwx----- acadgild supergroup          0 2018-07-07 18:52 /tmp
drwxr-xr-x - acadgild supergroup          0 2018-07-07 18:37 /user
[acadgild@localhost ~]$ hadoop fs -ls /user
18/07/07 21:55:52 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
drwxr-xr-x - acadgild supergroup          0 2018-07-07 21:42 /user/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/07/07 21:56:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
drwxr-xr-x - acadgild supergroup          0 2018-07-07 18:38 /user/acadgild/sqoop
drwxr-xr-x - acadgild supergroup          0 2018-07-07 21:42 /user/acadgild/hadoop
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/07 21:56:30 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 ~]$
```

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 a 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

The screenshot shows a Windows desktop environment. At the top, a web browser window is open with multiple tabs, including 'Student Da...', 'How+to+In...', 'how to exp...', 'PNG to PDF...', 'word-count...', 'word-count...', 'dir.exist.pdf', and 'hadoop drive'. The address bar shows the file path 'file:///C:/Users/Rahul/Desktop/word-count.pdf'. Below the browser, a terminal window is open, displaying the following text:

```
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat word-count.txt /user/word-count.txt
18/07/07 23:22:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
cat: 'word-count.txt': No such file or directory
Kya Khubsurat Apka Andaj Hai,
Hakikat Hai Ya Khwab Hai,
Khush Nashibo Ke Paas Aap Rahte Ho,
Humare Paas Bas Apki Mithi Si Yaad Hai.

Kya Khubsurat Apka Andaj Hai,
Hakikat Hai Ya Khwab Hai,
Khush Nashibo Ke Paas Aap Rahte Ho,
Humare Paas Bas Apki Mithi Si Yaad Hai.
Kya Khubsurat Apka Andaj Hai,
Hakikat Hai Ya Khwab Hai,
Khush Nashibo Ke Paas Aap Rahte Ho,
Humare Paas Bas Apki Mithi Si Yaad Hai.
Kya Khubsurat Apka Andaj Hai,
Hakikat Hai Ya Khwab Hai,
Khush Nashibo Ke Paas Aap Rahte Ho,
Humare Paas Bas Apki Mithi Si Yaad Hai.[acadgild@localhost ~]$
```

Below the terminal, a file explorer window is open, showing a list of files: 'word-count.pdf', 'word-count.pdf', 'dir.exist.pdf', and 'permission.pdf'. The 'Show all' button is visible. At the bottom, the Windows taskbar is shown with the search bar 'Search the web and Windows' and various application icons. The system clock shows '14:49' and '08/07/2018'.

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.

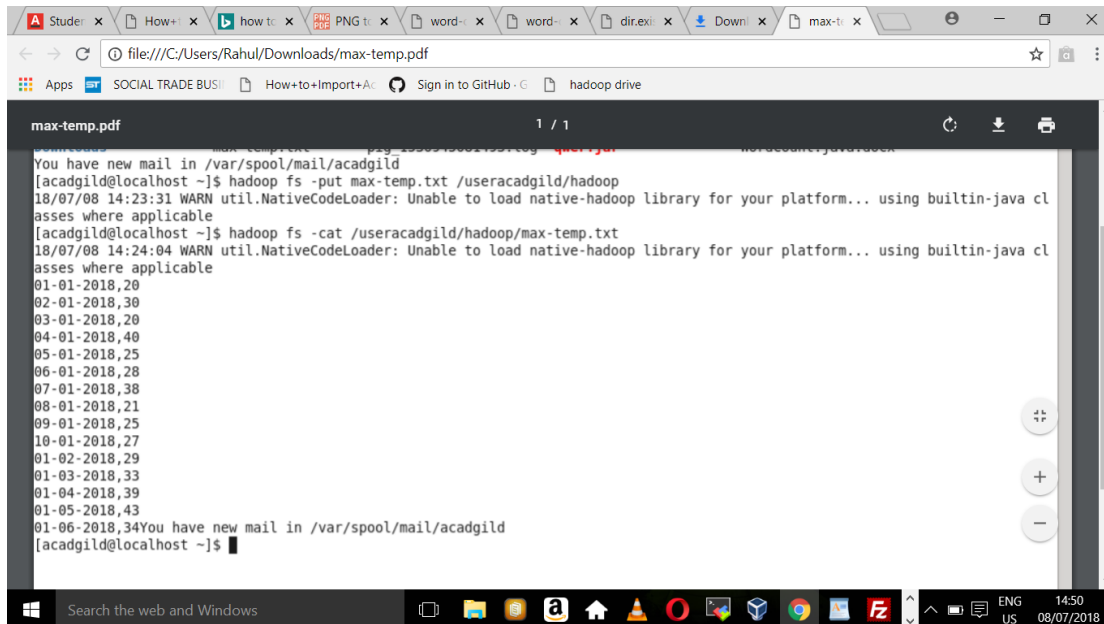
Ans :

nano max-temp.txt

(Creates a file max-temp.txt. Have input 15 dates in format dd-mm-yyyy,temperature)
hadoop fs -move FromLocal max-temp.txt/user/acadgild/hadoop/

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

ScreenShot:



```
max-temp.pdf 1 / 1
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -put max-temp.txt /useracadgild/hadoop
18/07/08 14:23:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -cat /useracadgild/hadoop/max-temp.txt
18/07/08 14:24:04 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
01-01-2018,20
02-01-2018,30
03-01-2018,20
04-01-2018,40
05-01-2018,25
06-01-2018,28
07-01-2018,38
08-01-2018,21
09-01-2018,25
10-01-2018,27
01-02-2018,29
01-03-2018,33
01-04-2018,39
01-05-2018,43
01-06-2018,34You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

Creation of file maxtemp.txt & displaying that /user/acadgild/hadoop/ consists of only one file in the beginning. After moving the file from local on to hadoop.Filemax-temp.txt relocates from localfile system on to hadoop file system

Task4:

Change the permission of the file/user/acadgild/hadoop/max-temp.txt, such that only the owner and the group members have full control overthefile.
Others donot have any control over it.

Ans:

```
hadoop fs-chmod770/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->Allpermission,0->NoPermission)

ScreenShot:

