## Session 2- Assignment 2

Tasks:

### 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:**

Checked for /user/acadgild directory if exists using command : hadoop fs —ls or hadoop fs —ls /user/acadgild command

It exists and then created directory /user/acadgild/hadoop using command : hadoop fs -mkdir /user/acadgild/hadoop

```
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/04/29 06:08:15 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 3 items
drwxr-xr-x - acadgild supergroup
                                            0 2018-03-25 16:54 /user/acadgild/CHARACTER_SETS
drwxr-xr-x

    acadgild supergroup

                                            0 2018-03-25 16:29 /user/acadgild/Person
drwxr-xr-x
            - acadgild supergroup
                                            0 2018-03-25 17:27 /user/acadgild/user
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/04/29 06:10:02 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/acadgild
18/04/29 06:11:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 4 items
drwxr-xr-x

    acadgild supergroup

                                            0 2018-03-25 16:54 /user/acadgild/CHARACTER_SETS
drwxr-xr-x
            - acadgild supergroup
                                            0 2018-03-25 16:29 /user/acadgild/Person
drwxr-xr-x

    acadgild supergroup

                                            0 2018-04-29 06:10 /user/acadgild/hadoop
drwxr-xr-x

    acadgild supergroup

                                            0 2018-03-25 17:27 /user/acadgild/user
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

### Task 2:

Create a file in HDFS under directory /user/acadqild/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:** The file is created using touchz command as shown below : **hadoop fs –touchz** /user/acadgild/hadoop/word-count.txt

Then added content to the file from anthoter local file: hadoop fs -appendToFile /home/acadgild/textfile.txt /user/acadgild/hadoop/word-count.txt

To append line from screen to file first add below propertyto hdfs-site.xml

property>

<name>dfs.support.append</name>

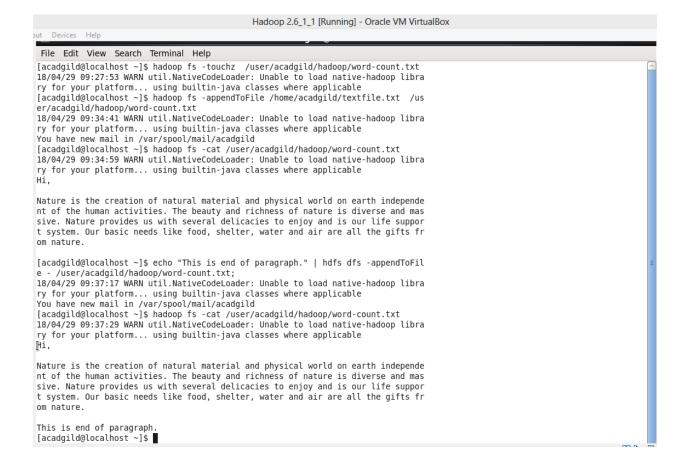
<value>true</value>

</property>

Then run the below commands to restart the service again sudo service sshd start start -all.sh

Then type the below command to append the line from screen to the word-count.txt file

Echo "This is end of paragraph." | hdfs dfs -appendToFile - /user/acadgild/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

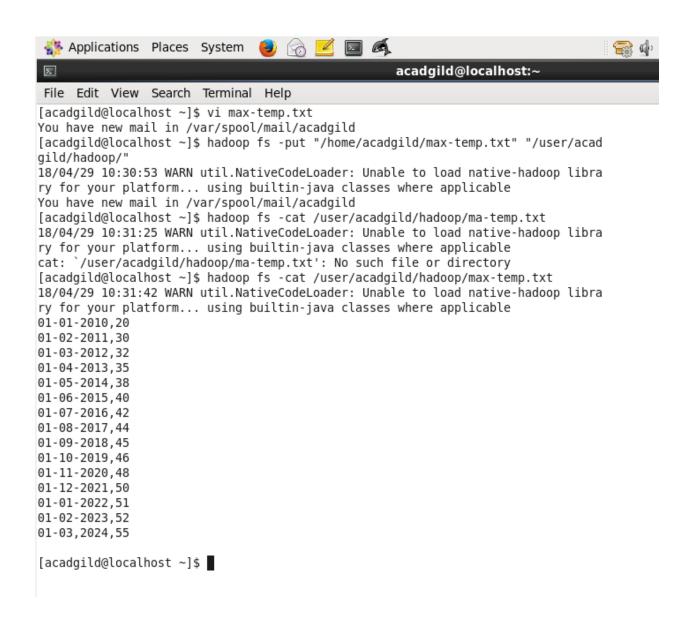
10-02-1991,20

**Solution:** First created a file on local using Vi Editior and added content to it and saved locally.

Then moved the file to below location using below command:

hadoop fs -put "/home/acadgild/max-temp.txt" "/user/acadgild/hadoop"

Then display the contents using below command:



#### 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**: Permission is changed for max-temp.txt file using below command such that only owner and group members have full control over the file.

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

The new permission for the file is seen by using below command:

# hadoop fs —ls /user/acadgild/hadoop/max-temp.txt

