

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.

COMMAND:-

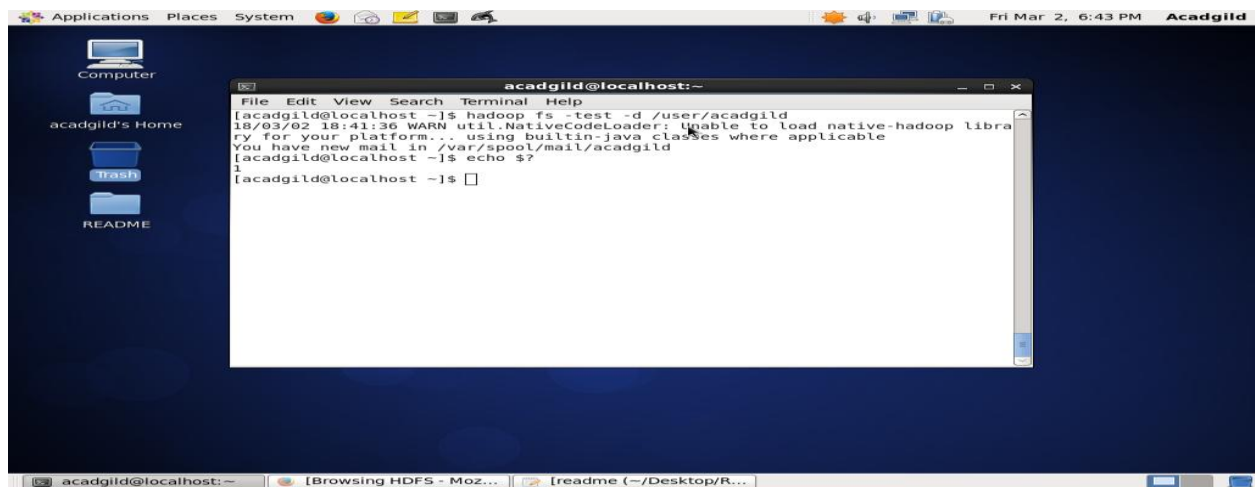
```
hadoop fs -test -d /user/acadgild
```

```
echo $?
```

EXPLANATION:-

To check the existence of the folder, I type these command. If exists then its return 0,if not it returns 1. here it returns 1, so it does not exist.

OUTPUT:-



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop fs -test -d /user/acadgild  
18/03/02 18:41:36 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 ~]$ echo $?  
1  
[acadgild@localhost ~]$
```

COMMAND:-

```
(i) hadoop fs -mkdir /user/acadgild/hadoop
```

```
(ii) hadoop fs -test -d /user/acadgild/hadoop
```

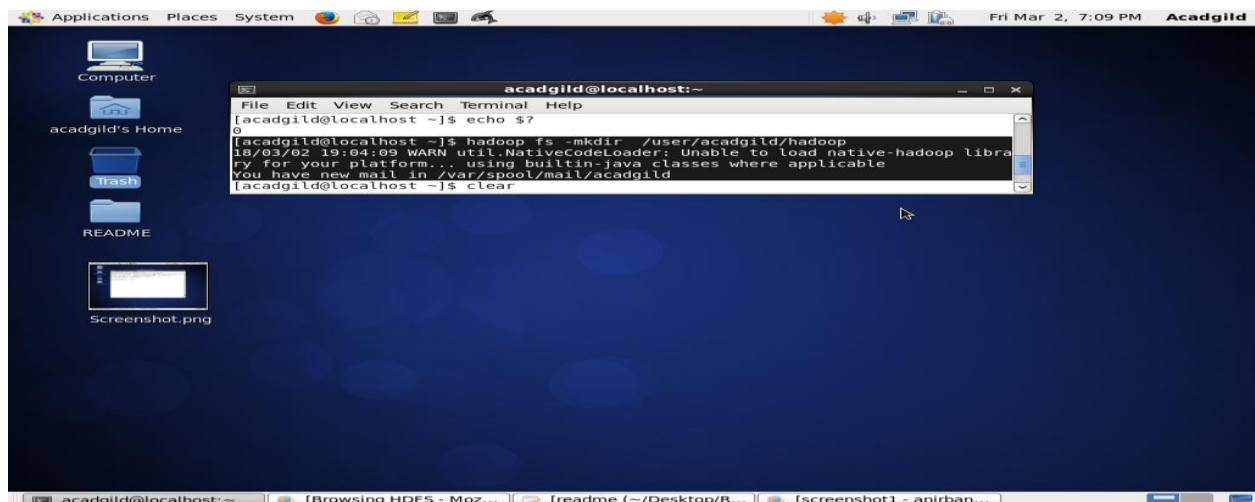
```
(iii) echo $?
```

EXPLANATION:-

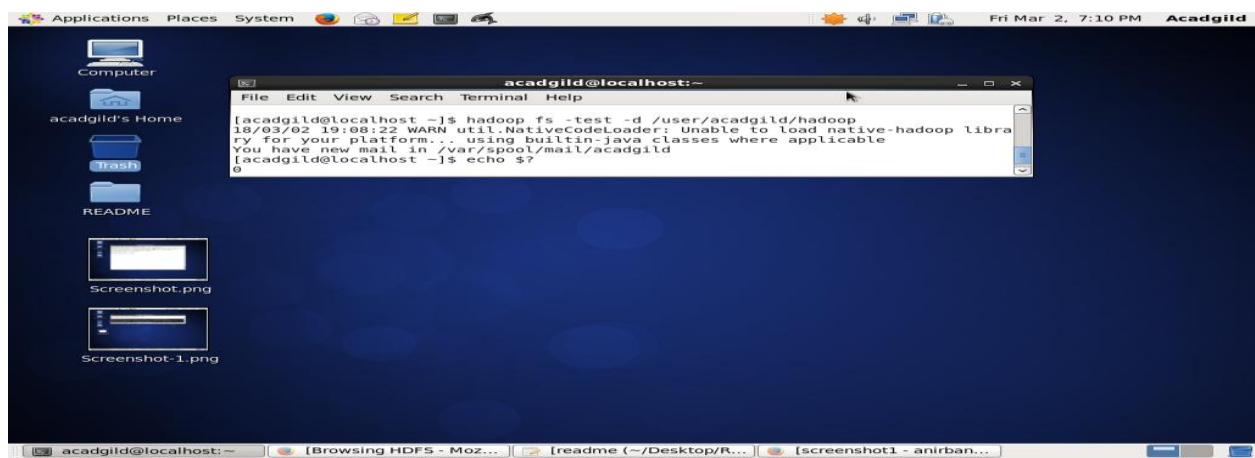
(i) First Command creates directory /user/acadgild/hadoop.

last two commands to check the existence of the folder, If exists then its return 0,if not it returns 1. here it returns 0, so it does exist.

OUTPUT:-



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ echo $?  
0  
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop  
18/03/02 19:04:09 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 ~]$ clear
```



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.

COMMAND:-

(i) `hadoop fs -touchz /user/acadgild/hadoop/word-count.txt`

(ii) `nano word-count.txt`

type something like:-

"hello Acadgild.

I m Ani."

then press CTRL+X, then Y, then press ENTER to back screen.

(iii) `hadoop fs -appendToFile word-count.txt /user/acadgild/hadoop/word-count.txt`

(iv) `hadoop fs -cat /user/acadgild/hadoop/word-count.txt`

EXPLANATION:-

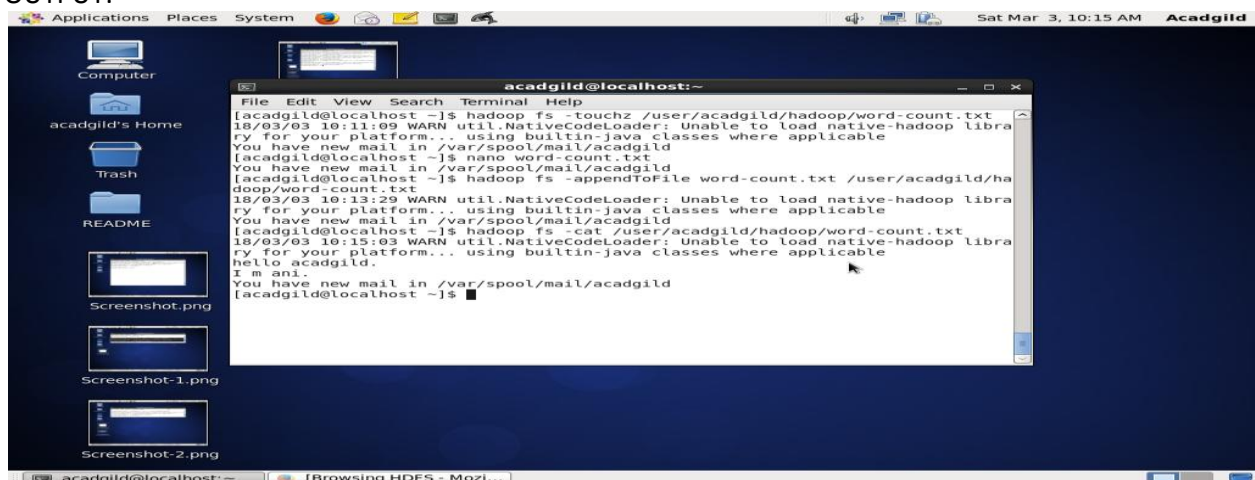
First Command Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

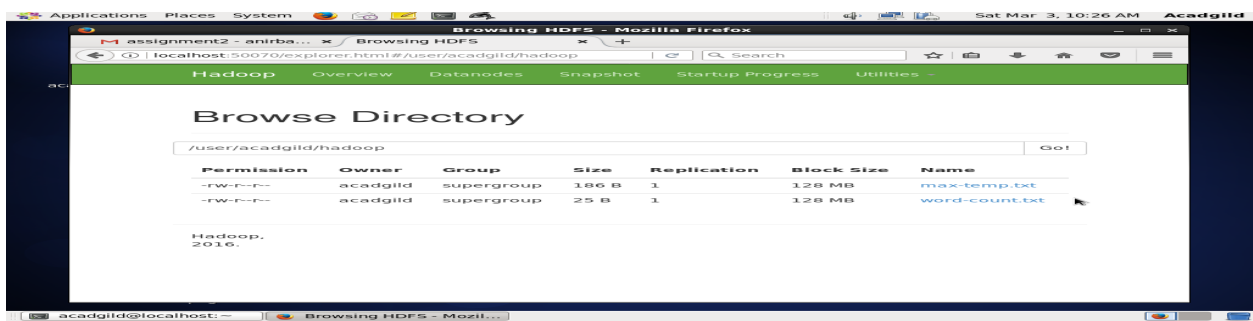
Second Command is used to write something to the file word-count.txt.

Third Command is used to append the content of the file word-count.txt with hdfs file word-count.txt.

Fourth Command check that hdfs file's content.

OUTPUT:-





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.

COMMAND:-

(i) (1) nano max-temp.txt

type something like Explanation.

then press CTRL+X, then Y, then press ENTER to back screen.

(2) cat max-temp.txt

(ii) hadoop fs -put max-temp.txt /user/acadgild/hadoop/max-temp.txt

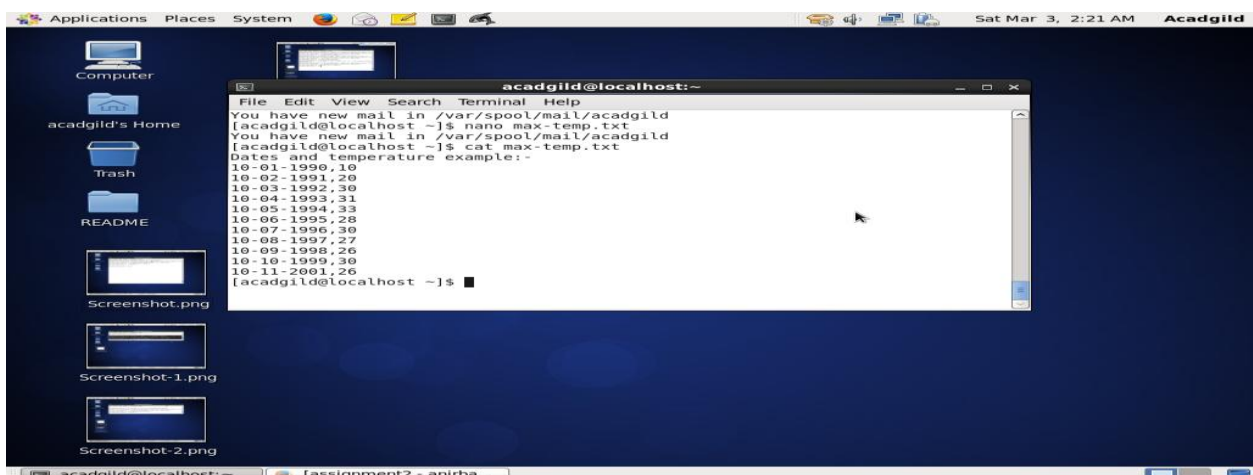
EXPLANATION:-

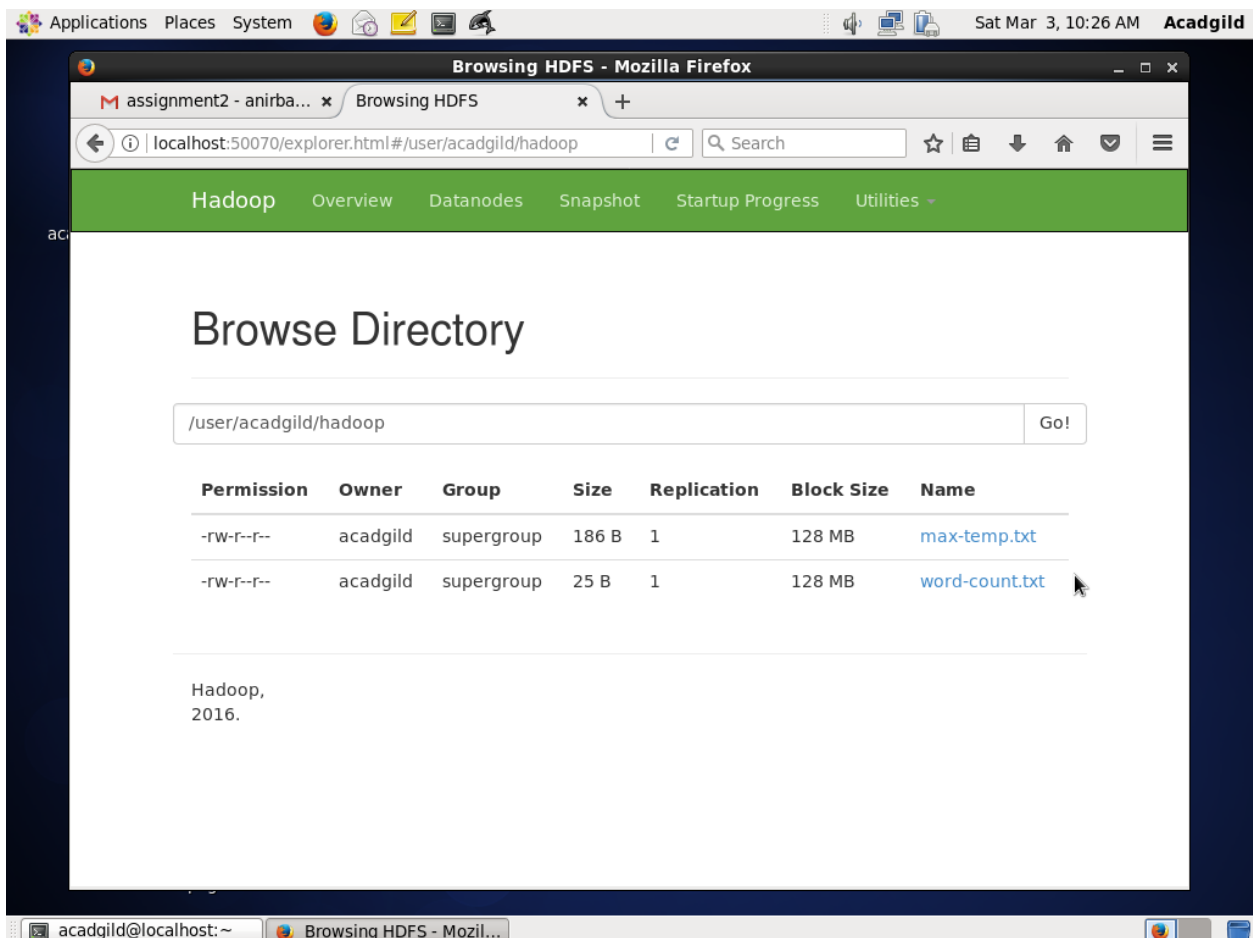
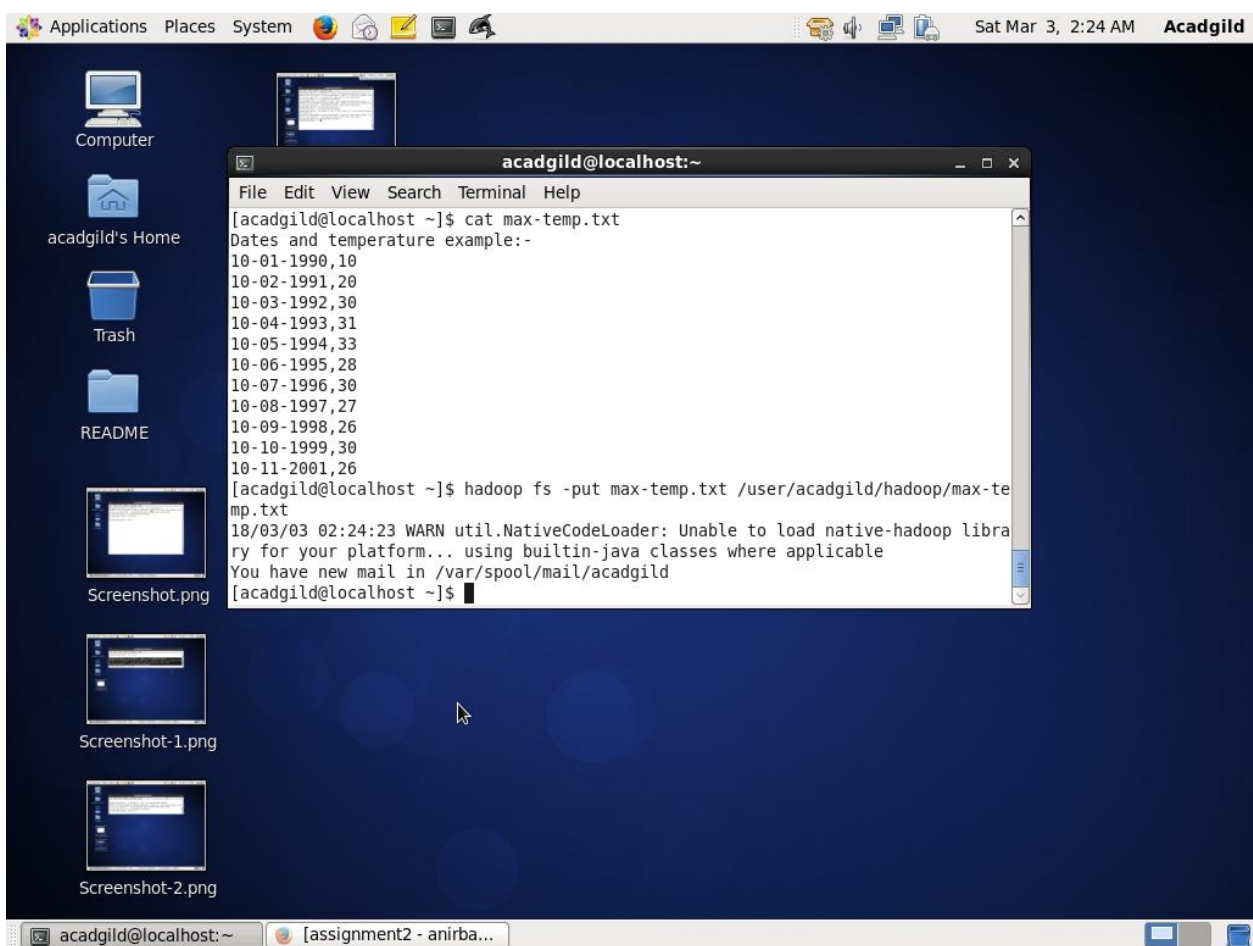
First Command is used to create & write something to the file max-temp.txt.

Then show the content of the max-temp.txt file at local disk, cat command is used.

Second Command puts the file to the HDFS from local disk.

OUTPUT:-





Task 4:

Change the permission of the file /user/acadmild/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.

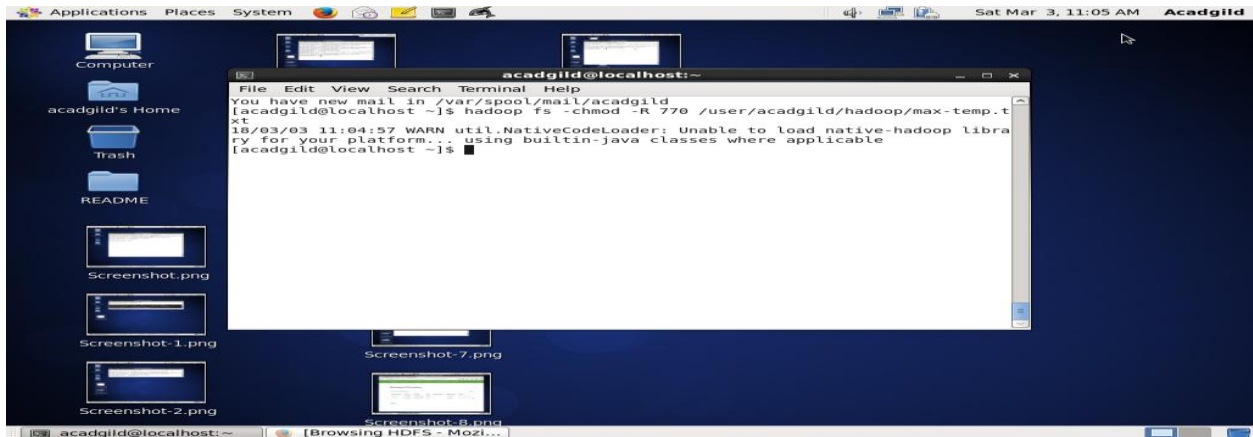
COMMAND:-

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

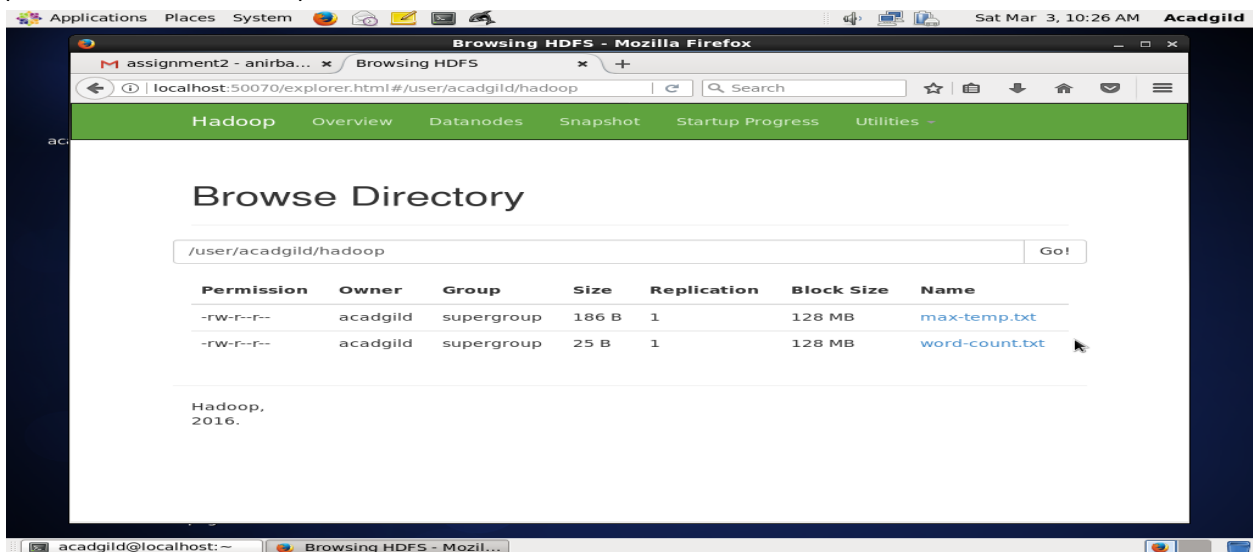
EXPLANATION:-

the owner and the group members have full control over the file max-temp.txt.
Others do not have any control over it.

OUTPUT:-



(BEFORE CHANGE MODE)



(AFTER CHANGE MODE)

