

# **ASSIGNMENT 2**

## **TASK 1:**

To check if user/acadgild directory exists in HDFS or not. If not, create /user/acadgild/Hadoop.

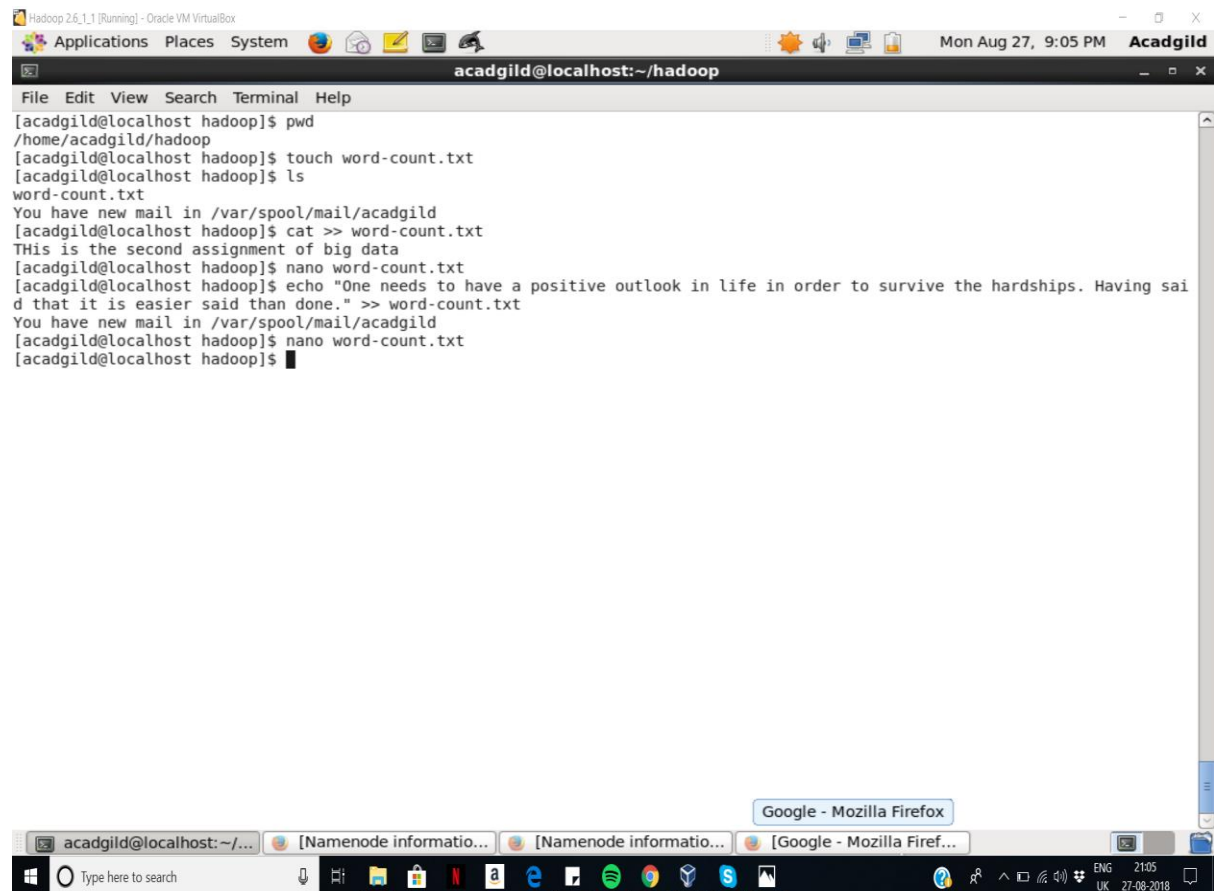
## **TASK 2:**

We need to 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 and then type on screen a few lines from any online article or textbook.

## **COMMANDS USED:**

- Pwd** – Checks the path and if specified directory exists - /user/acadgild/Hadoop
- touch word-count.txt** – Creates an empty file word-count.txt
- **cat >> word-count.txt** – This command allows the user to type whatever they intend to on the screen which gets appended to the file word-count.txt
- **echo “ hello “ >> word-count.txt** – This command appends whatever we type to the file word-count.txt
- **nano word-count.txt** – To check if what we typed is appended to the file.

## OUTPUT FOR TASK 1 & 2:



The screenshot shows a terminal window titled 'acadmild@localhost:~/hadoop'. The user performs the following actions:

```
[acadmild@localhost hadoop]$ pwd
/home/acadmild/hadoop
[acadmild@localhost hadoop]$ touch word-count.txt
[acadmild@localhost hadoop]$ ls
word-count.txt
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost hadoop]$ cat >> word-count.txt
This is the second assignment of big data
[acadmild@localhost hadoop]$ nano word-count.txt
[acadmild@localhost hadoop]$ echo "One needs to have a positive outlook in life in order to survive the hardships. Having said that it is easier said than done." >> word-count.txt
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost hadoop]$ nano word-count.txt
[acadmild@localhost hadoop]$
```

The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and a system tray with the date 'Mon Aug 27, 9:05 PM' and the username 'Acadmild'.



The screenshot shows the nano text editor editing the file 'word-count.txt'. The content of the file is:

```
This is the second assignment of big data
One needs to have a positive outlook in life in order to survive the hardships. Having said that it is easier said than done.
```

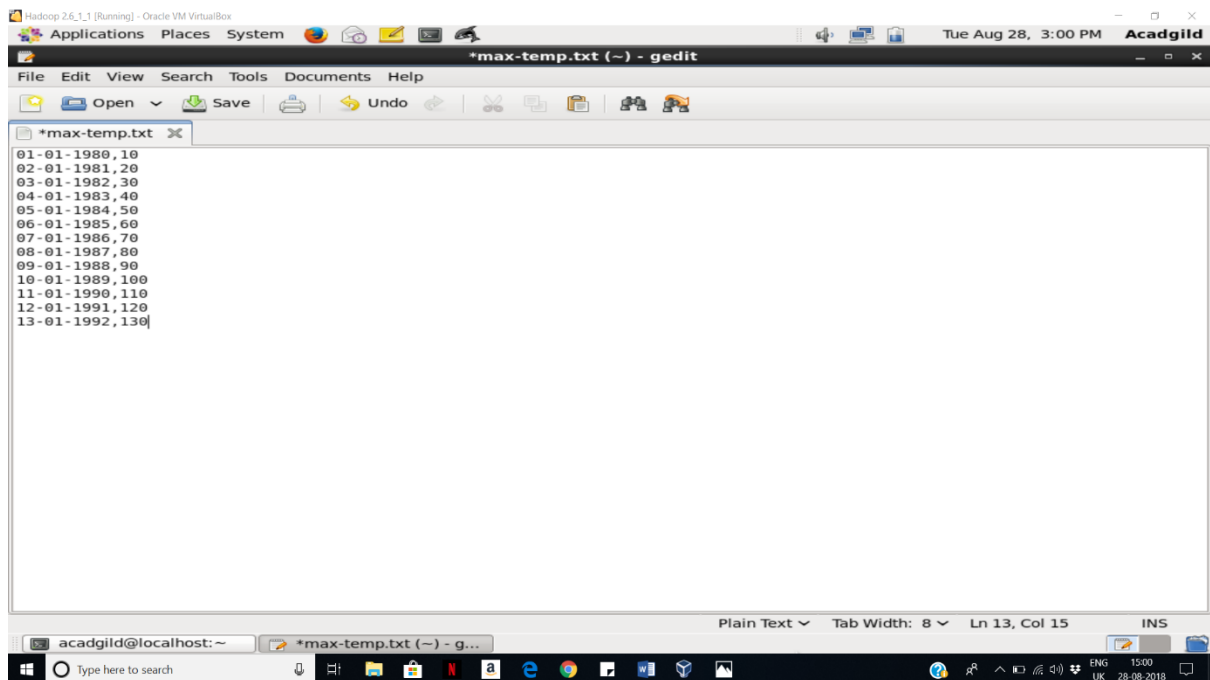
The nano editor interface includes a menu bar at the top with options like 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. At the bottom, there is a status bar showing the current line and column, and a command palette with various editing commands such as '^G Get Help', '^X Exit', '^O WriteOut', '^J Justify', '^R Read File', '^W Where Is', '^Y Prev Page', '^V Next Page', '^K Cut Text', '^U UnCut Text', '^C Cur Pos', and '^T To Spell'.

### TASK 3:

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

Put 10-15 records of date and temperature.

### OUTPUT FOR TASK 3:



```
*max-temp.txt (~) - gedit
File Edit View Search Tools Documents Help
Open Save Undo
*max-temp.txt
01-01-1980,10
02-01-1981,20
03-01-1982,30
04-01-1983,40
05-01-1984,50
06-01-1985,60
07-01-1986,70
08-01-1987,80
09-01-1988,90
10-01-1989,100
11-01-1990,110
12-01-1991,120
13-01-1992,130
Plain Text Tab Width: 8 Ln 13, Col 15 INS
acadgild@localhost: ~ *max-temp.txt (~) - g...
```

We need to move this file to HDFS at /user/acadgild/hadoop.

### TASK 4:

We need to 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.

### COMMANDS USED:

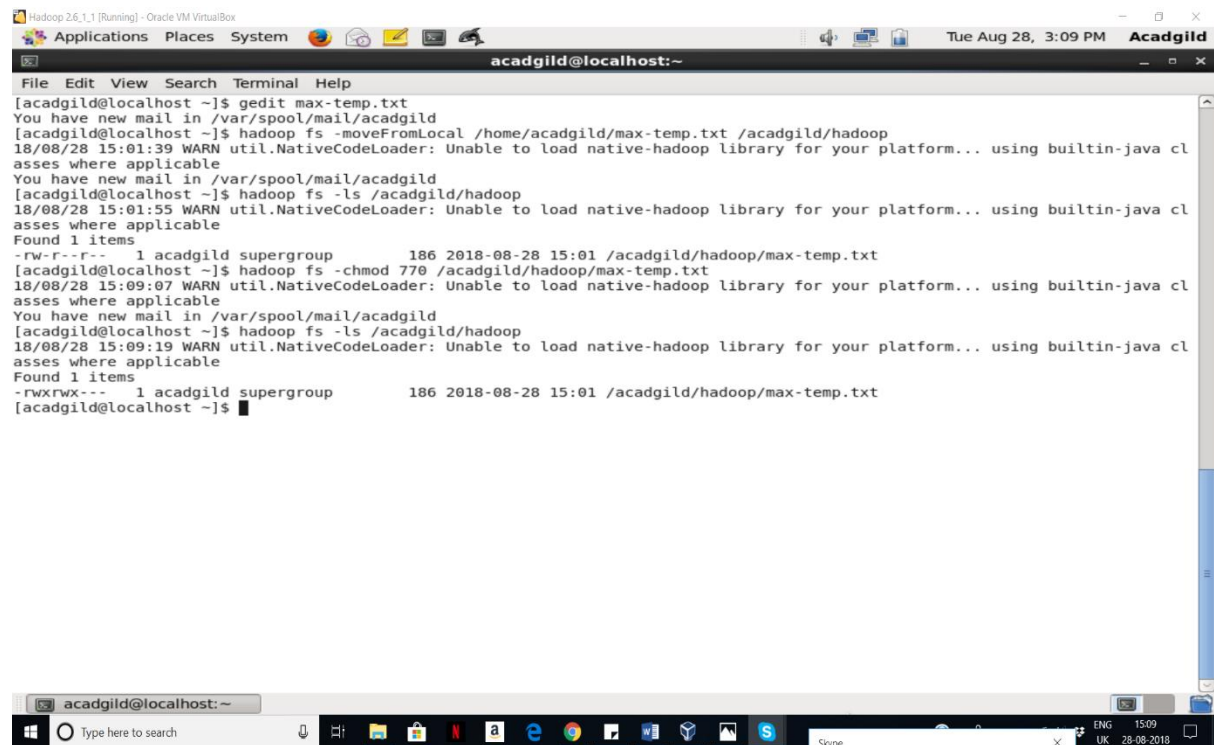
**-gedit max-temp.txt** – Create a file max-temp.txt using gedit editor.

**-hadoop fs -moveFromLocal /home/acadgild/max-temp.txt /acadgild/Hadoop** – This command is used to move the file max-temp.txt from the Local File System to HDFS.

**-hadoop fs -ls /acadgild/Hadoop-** This command is used to check all the files present in /acadgild/Hadoop and max-temp.txt file is present.

**- hadoop fs -chmod 770 /home/acadgild/max-temp.txt**  
**/acadgild/Hadoop** -This command is used to change the permissions where only the owner and the group members have full control over the file. Others do not have any control over it.

## OUTPUT FOR TASK 4:



```
Hadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
Applications Places System
acadmild@localhost:~
File Edit View Search Terminal Help
[acadmild@localhost ~]$ gedit max-temp.txt
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost ~]$ hadoop fs -moveFromLocal /home/acadmild/max-temp.txt /acadmild/hadoop
18/08/28 15:01:39 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/acadmild
[acadmild@localhost ~]$ hadoop fs -ls /acadmild/hadoop
18/08/28 15:01:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rw-r--r-- 1 acadmild supergroup          186 2018-08-28 15:01 /acadmild/hadoop/max-temp.txt
[acadmild@localhost ~]$ hadoop fs -chmod 770 /acadmild/hadoop/max-temp.txt
18/08/28 15:09:07 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/acadmild
[acadmild@localhost ~]$ hadoop fs -ls /acadmild/hadoop
18/08/28 15:09:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rwxrwx--- 1 acadmild supergroup          186 2018-08-28 15:01 /acadmild/hadoop/max-temp.txt
[acadmild@localhost ~]$
```