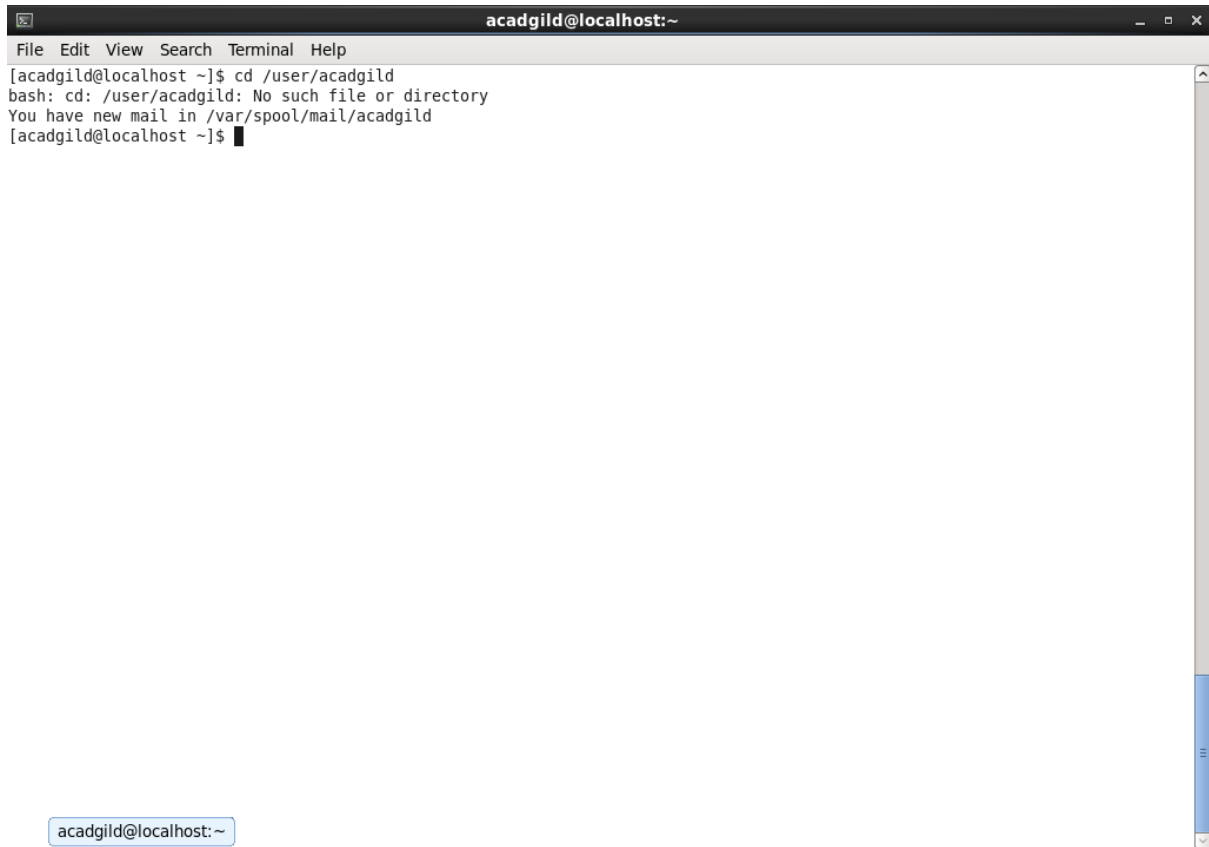


Task 1:

Check whether /user/acadgild directory exists or not in the HDFS.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command 'cd /user/acadgild' being executed, which results in an error message: 'bash: cd: /user/acadgild: No such file or directory'. Below the error, a system message states: 'You have new mail in /var/spool/mail/acadgild'. The prompt returns to 'acadgild@localhost ~]\$'.

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ cd /user/acadgild  
bash: cd: /user/acadgild: No such file or directory  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

If it doesn't exist, then create this. Create a directory /user/acadgild/hadoop.

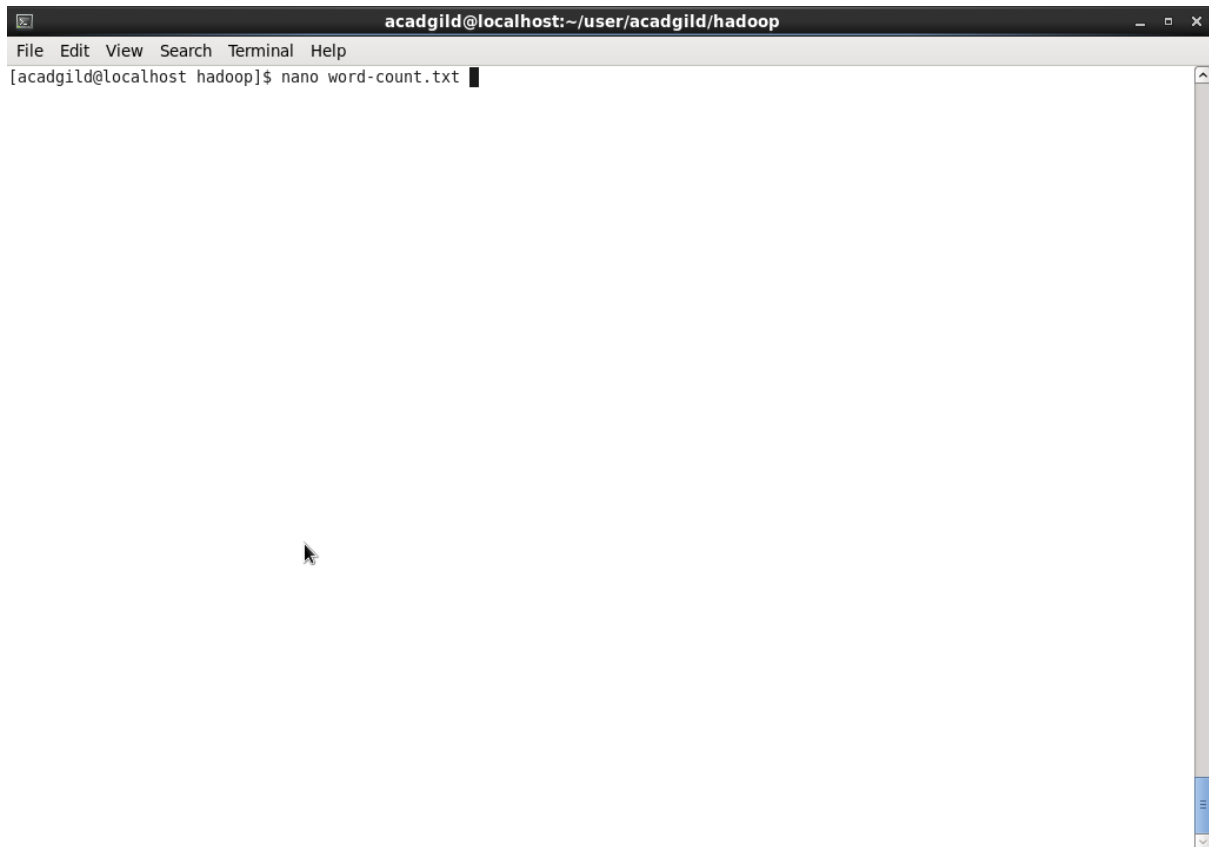
```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ mkdir -p user/acadgild/hadoop
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls -ltr
total 1351684
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 2017 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 2018 eclipse-workspace
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
-rw-rw-r--. 1 acadgild acadgild 31 Jul 21 11:06 test1.txt
-rw-r--r--. 1 acadgild acadgild 1056906185 Jul 22 10:10 file.txt
-rw-r--r--. 1 acadgild acadgild 327155712 Jul 22 10:11 file327.txt
drwxr-xr-x. 2 acadgild acadgild 4096 Jul 28 13:39 Downloads
drwxr-xr-x. 4 acadgild acadgild 4096 Jul 28 14:19 Desktop
-rw-rw-r--. 1 acadgild acadgild 15 Jul 28 14:24 test.txt
drwxrwxr-x. 3 acadgild acadgild 4096 Aug 3 00:58 user
[acadgild@localhost ~]$ cd user/acadgild/hadoop/
[acadgild@localhost hadoop]$ pwd
/home/acadgild/user/acadgild/hadoop
[acadgild@localhost hadoop]$
```

By ls command we can check if a directory is there or not if it is not there error no such file or directory would be printed on console

By mkdir -p /user/acadgild/Hadoop we can create a directory, here -p option signifies to create several subdirectories at one time with user as parent

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.

```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
GNU nano 2.0.9 File: word-count.txt Modified

Hello,

It has been quite a journey with acadgild

I am learning big data concepts from them, they have provided a brilliant mentor and cool supporting staff that are
helping me in every possible way

Syed their mentor is very good and his way of teaching shows his experience into hadoop concepts

I would be definetly recommending acadgild to my office colleagues

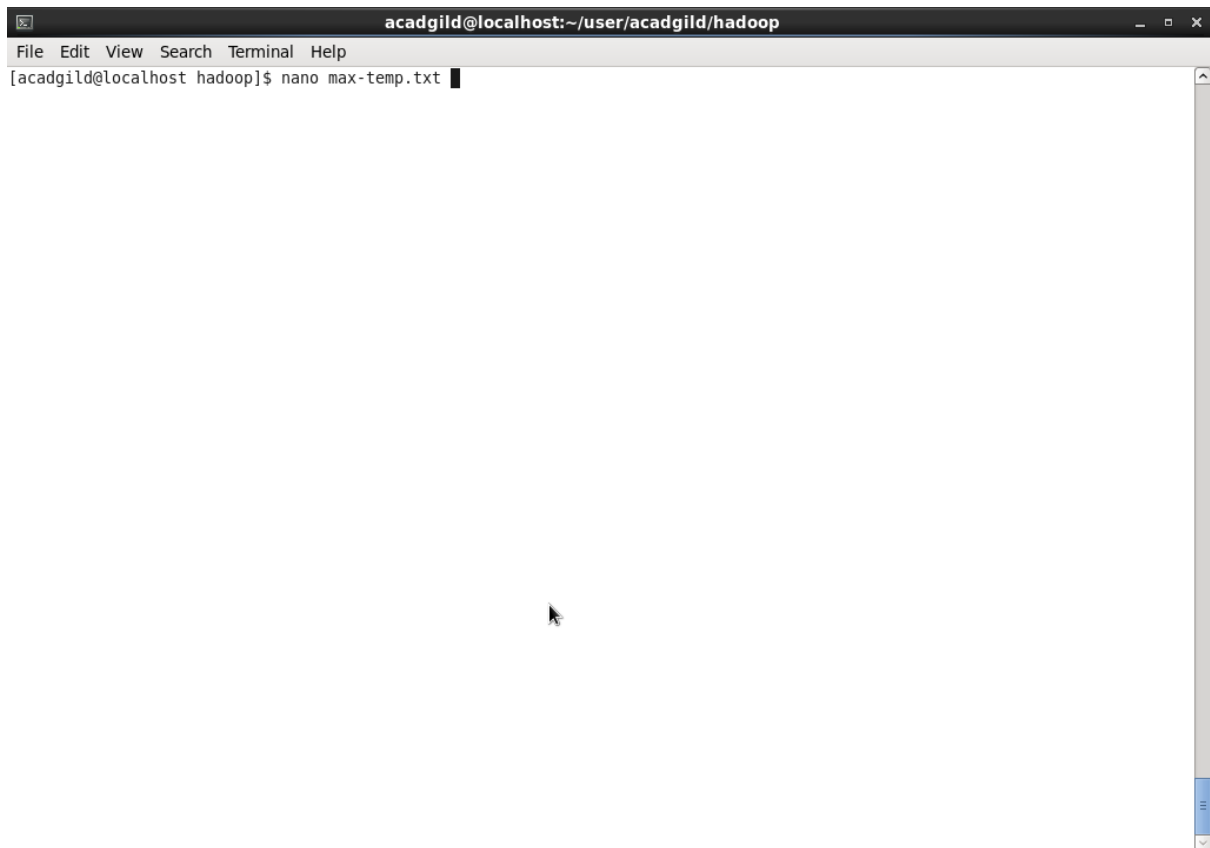
Thanks,
Hem

File Name to Write: word-count.txt
^G Get Help      ^T To Files      M-M Mac Format   M-P Prepend
^C Cancel        M-D DOS Format   M-A Append      M-B Backup File
```

With the help of nano editor we can type any lines and just do ctrl-o to save and then strl-x to exit and then press enter after saving the file name

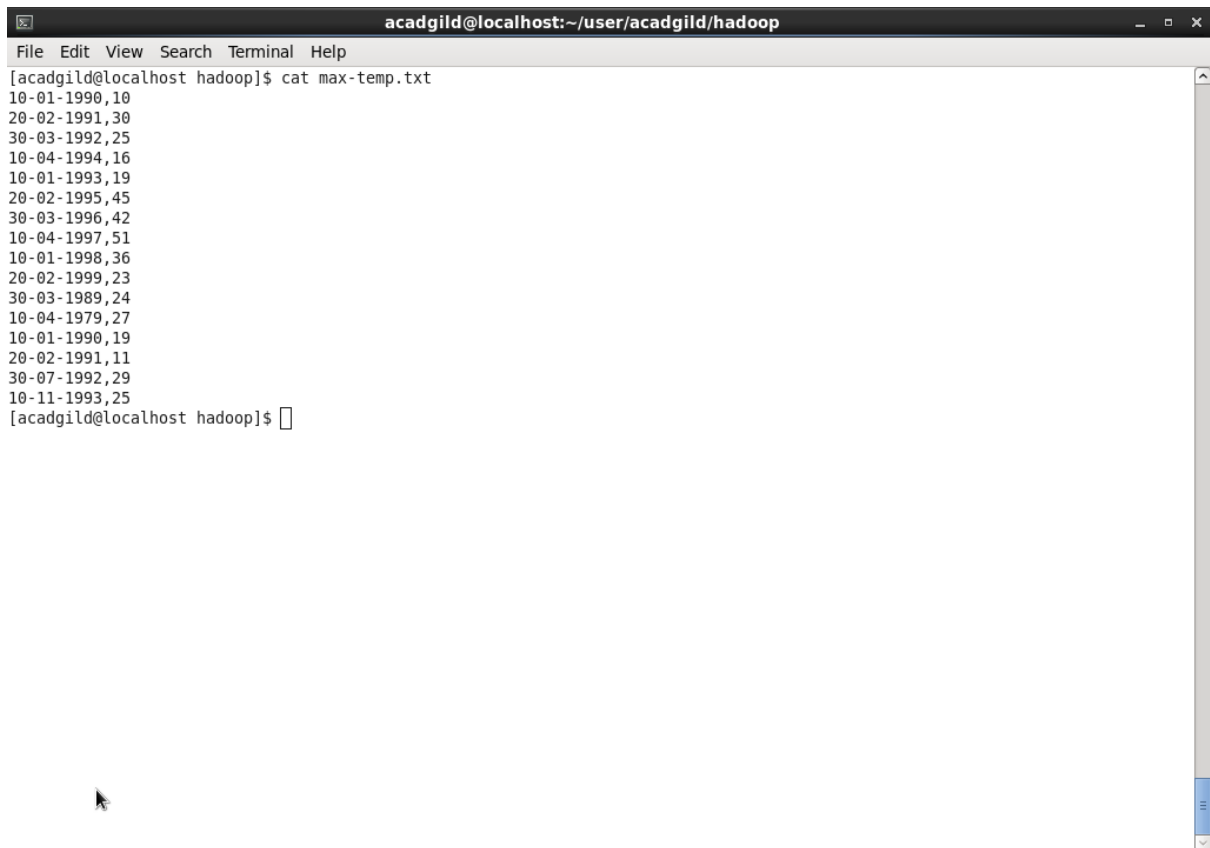
Task 3:

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



Put some 10-15 records of date and temperature example:

dd-mm-yyyy,temperature

A terminal window titled 'acadgild@localhost:~/user/acadgild/hadoop'. The window contains a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command '[acadgild@localhost hadoop]\$ cat max-temp.txt' has been executed, displaying the following text: 10-01-1990,10
20-02-1991,30
30-03-1992,25
10-04-1994,16
10-01-1993,19
20-02-1995,45
30-03-1996,42
10-04-1997,51
10-01-1998,36
20-02-1999,23
30-03-1989,24
10-04-1979,27
10-01-1990,19
20-02-1991,11
30-07-1992,29
10-11-1993,25
The prompt '[acadgild@localhost hadoop]\$' is visible at the bottom of the terminal output.

```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
[acadgild@localhost hadoop]$ cat max-temp.txt
10-01-1990,10
20-02-1991,30
30-03-1992,25
10-04-1994,16
10-01-1993,19
20-02-1995,45
30-03-1996,42
10-04-1997,51
10-01-1998,36
20-02-1999,23
30-03-1989,24
10-04-1979,27
10-01-1990,19
20-02-1991,11
30-07-1992,29
10-11-1993,25
[acadgild@localhost hadoop]$
```

Again with the help of nano editor we can create this file and I am using cat to view the content of this file which has been created in /user/acadgild/hadoop

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.



```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop]$ ls -ltr
total 8
-rw-rw-r--. 1 acadgild acadgild 380 Aug  3 01:08 word-count.txt
-rw-rw-r--. 1 acadgild acadgild 224 Aug  3 01:16 max-temp.txt
[acadgild@localhost hadoop]$ chmod 770 max-temp.txt
```

```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop]$ ls -ltr
total 8
-rw-rw-r--. 1 acadgild acadgild 380 Aug  3 01:08 word-count.txt
-rw-rw-r--. 1 acadgild acadgild 224 Aug  3 01:16 max-temp.txt
[acadgild@localhost hadoop]$ chmod 770 max-temp.txt
[acadgild@localhost hadoop]$ ls -ltr
bash: ls-ltr: command not found
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop]$ ls -ltr
total 8
-rw-rw-r--. 1 acadgild acadgild 380 Aug  3 01:08 word-count.txt
-rwxrwx---. 1 acadgild acadgild 224 Aug  3 01:16 max-temp.txt
[acadgild@localhost hadoop]$
```

We can see the default permission as rw to user , rw to group and r to others, now to change the permission I have used below command

Chmod 770 max-temp.txt

770 because 4 stand for read 2 stand for write 1 stand for execute and 0 stand for no permission, hence user has been given 7(4+2+1),group(4+2+1), other(0)