

TASK 1:

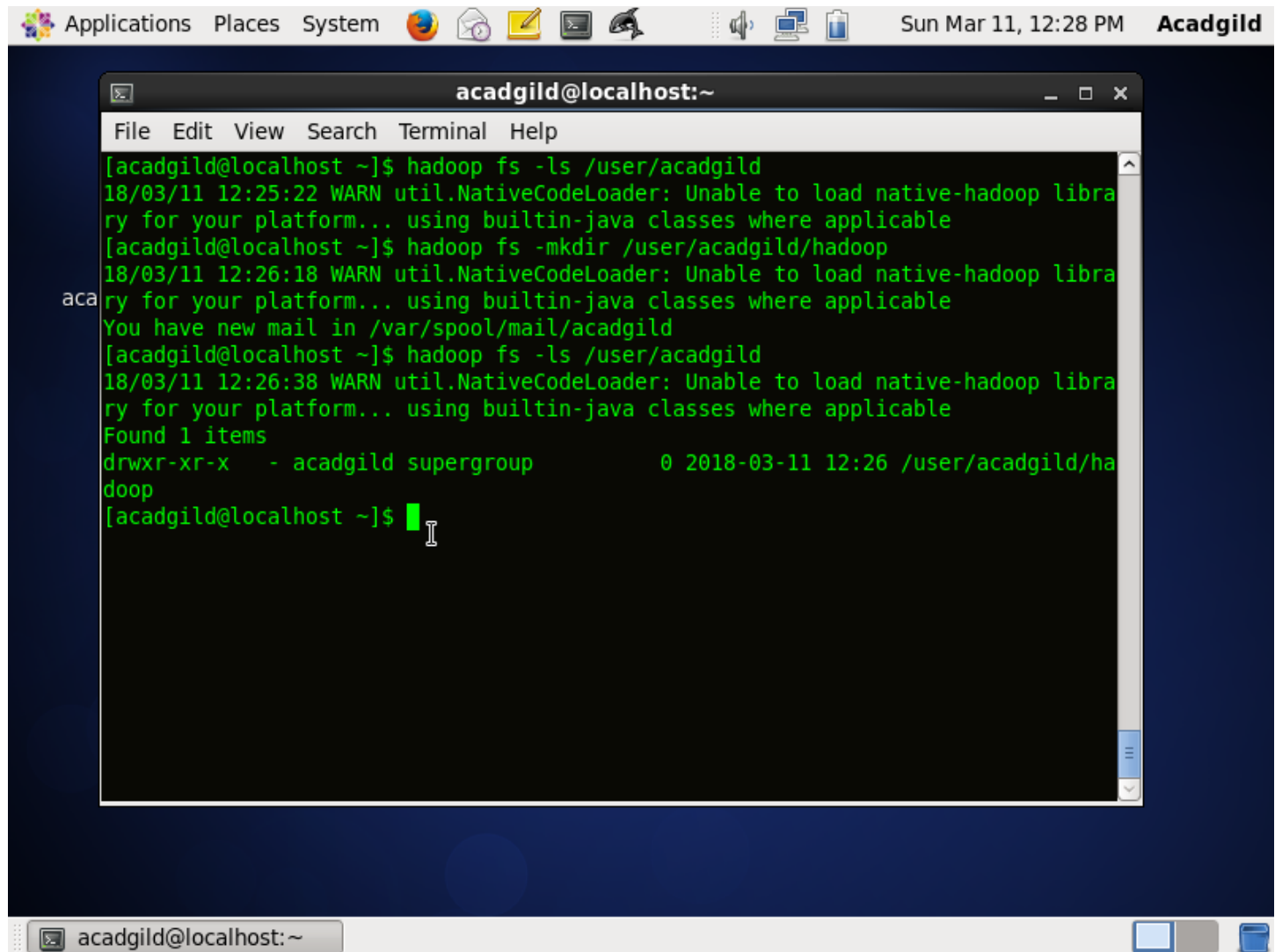
After checking the contents of /user/acadgild, no directories name hadoop was found.

command to check the contents of diectory of /user/acadgild : `hadoop fs -ls /user/acadgild`

For creating directory /user/acadgild/Hadoop

Command: `hadoop fs -mkdir /user/Acadgild/Hadoop`

Now after running `hadoop fs ls -l /user/acadgild` , one can see the hadoop directory, hence it was successfully created



The screenshot shows a terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output is as follows:

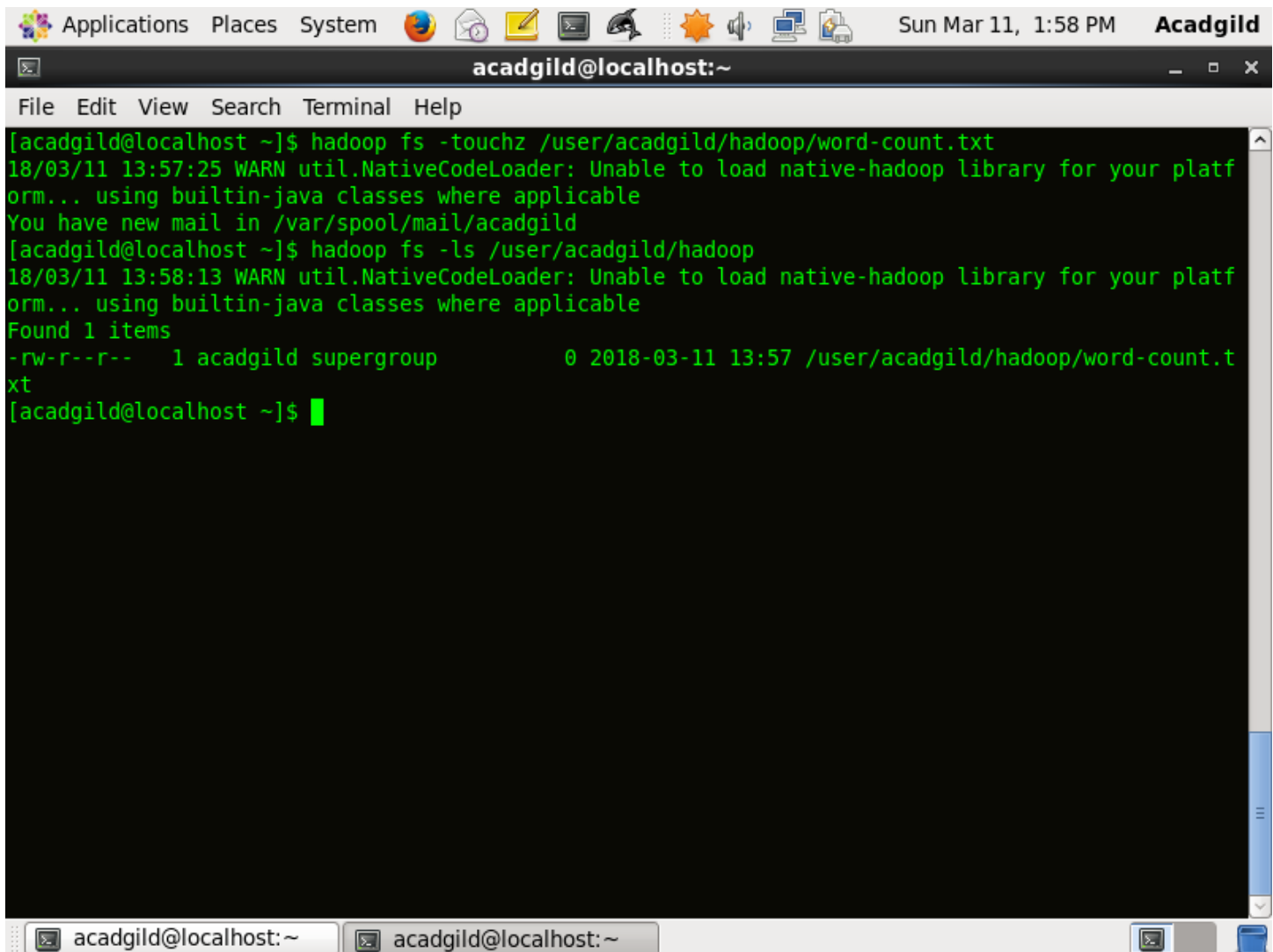
```
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/03/11 12:25:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/03/11 12:26:18 WARN util.NativeCodeLoader: 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 ~]$ hadoop fs -ls /user/acadgild
18/03/11 12:26:38 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 2018-03-11 12:26 /user/acadgild/hadoop
[acadgild@localhost ~]$
```

The terminal window is part of a desktop environment with a top bar showing 'Applications', 'Places', 'System', and system icons. The top right corner displays 'Sun Mar 11, 12:28 PM' and the username 'Acadgild'. The bottom of the window shows a taskbar with the terminal icon and the text 'acadgild@localhost: ~'.

TASK 2:

To create a new file under `/user/acadgild/hadoop` with name `word-count.txt` the command is :
`hadoop fs -touchz /user/acadgild/hadoop/word-count.txt`

Run **`hadoop fs -ls /user/acadgild/hadoop`** to check if the file `word-count.txt` was created successfully



The screenshot shows a terminal window titled "acadgild@localhost:~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar at the top (Applications, Places, System, icons, Sun Mar 11, 1:58 PM, Acadgild). The terminal displays the following commands and output:

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/03/11 13:57:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/11 13:58:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
Found 1 items
-rw-r--r--  1 acadgild supergroup          0 2018-03-11 13:57 /user/acadgild/hadoop/word-count.t
xt
[acadgild@localhost ~]$
```

The terminal window has two tabs at the bottom, both labeled "acadgild@localhost:~".

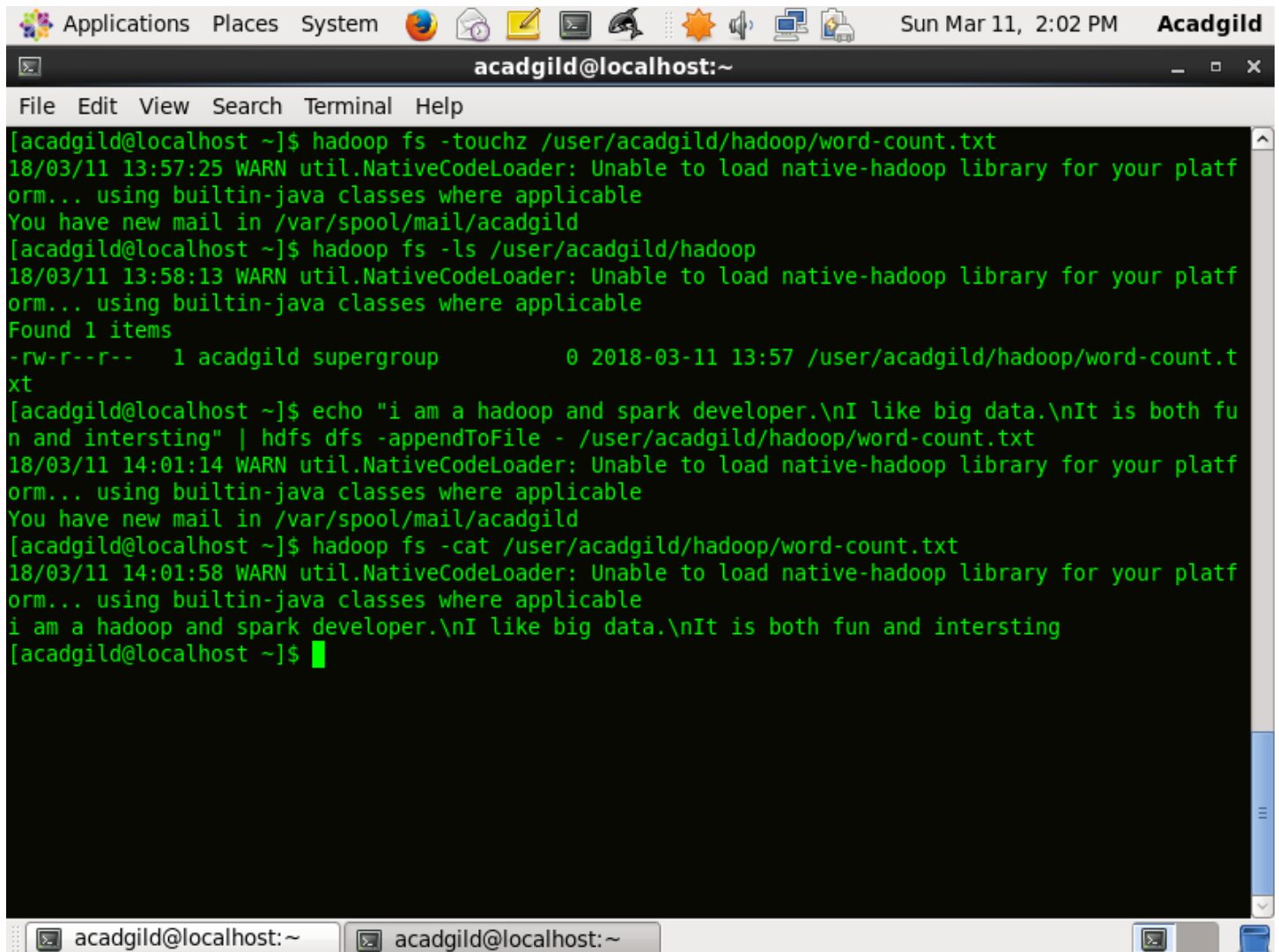
To append a file use the command : **hdfs dfs -appendToFile <src> <dest>**

In this case the file to be appended is word-count.txt under /user/acadgild/hadoop, but the input is stdin and not any particular source file.

The stdin is provided by using the command : **echo "<text you want to append>"**

The output of above command will be appended to word-count.txt so the final command is :
echo "<text you want to append>" | hdfs -dfs -appendToFile - /user/acadgild/hadoop/word-count.txt

Use command **hadoop fs -cat /user/acadgild/hadoop/word-count.txt** to check the content of your appended file.



```
Applications Places System Sun Mar 11, 2:02 PM Acadgild
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/03/11 13:57:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/11 13:58:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
Found 1 items
-rw-r--r--  1 acadgild supergroup          0 2018-03-11 13:57 /user/acadgild/hadoop/word-count.t
xt
[acadgild@localhost ~]$ echo "i am a hadoop and spark developer.\nI like big data.\nIt is both fu
n and intersting" | hdfs dfs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/03/11 14:01:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/03/11 14:01:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
i am a hadoop and spark developer.\nI like big data.\nIt is both fun and intersting
[acadgild@localhost ~]$
```

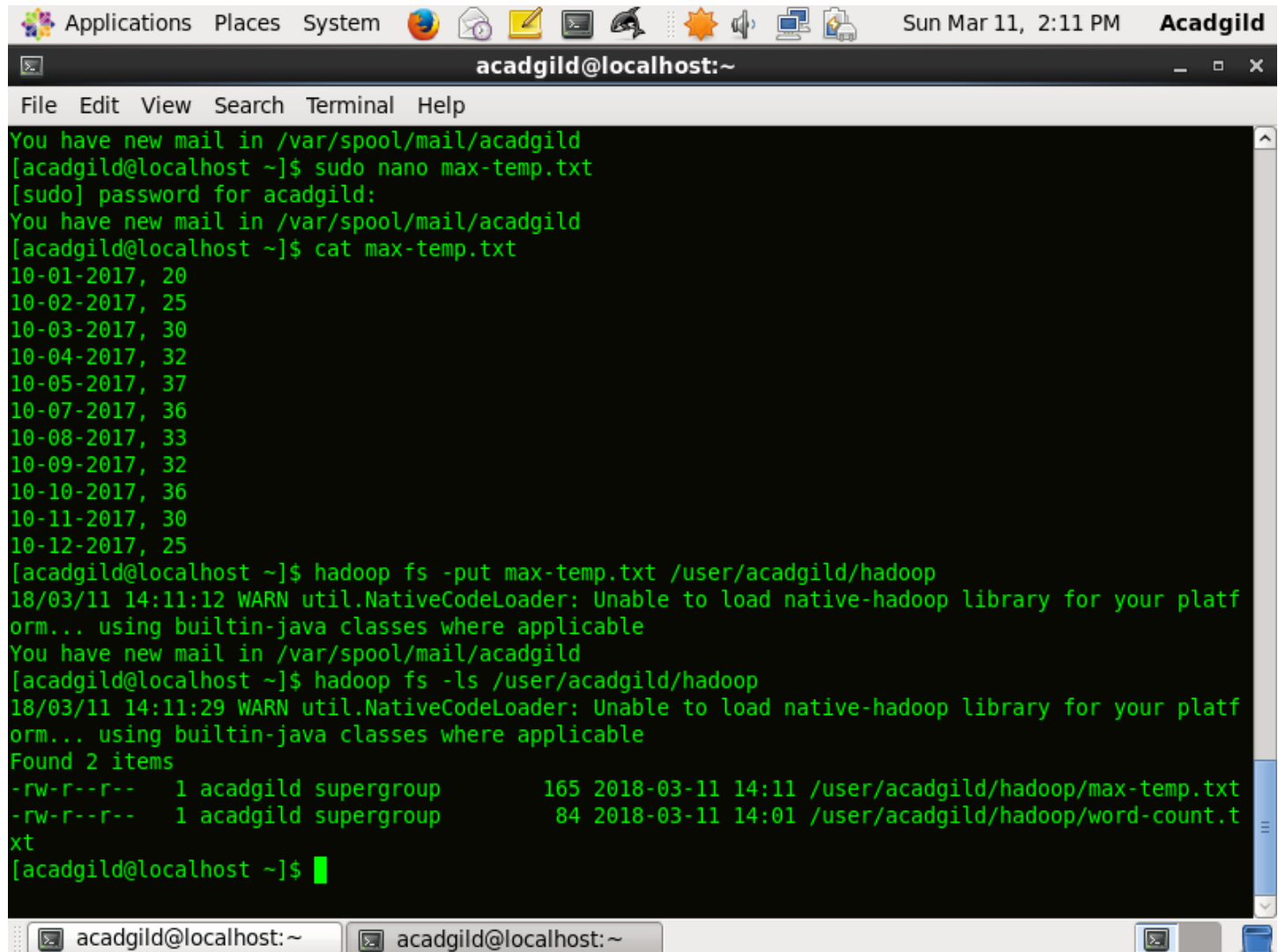
Task 3 :

Creating a file max-temp in local FS by command **sudo nano map-text.txt**

Then Enter your data and press ctrl+O to overwrite then press enter to confirm filename and ctrl+X to exit

Using cat command to view the data

Then to copy the max-temp.txt to /user/acadgild/hadoop directory use command **hadoop fs -put max-temp.txt /user/acadgild/hadoop**

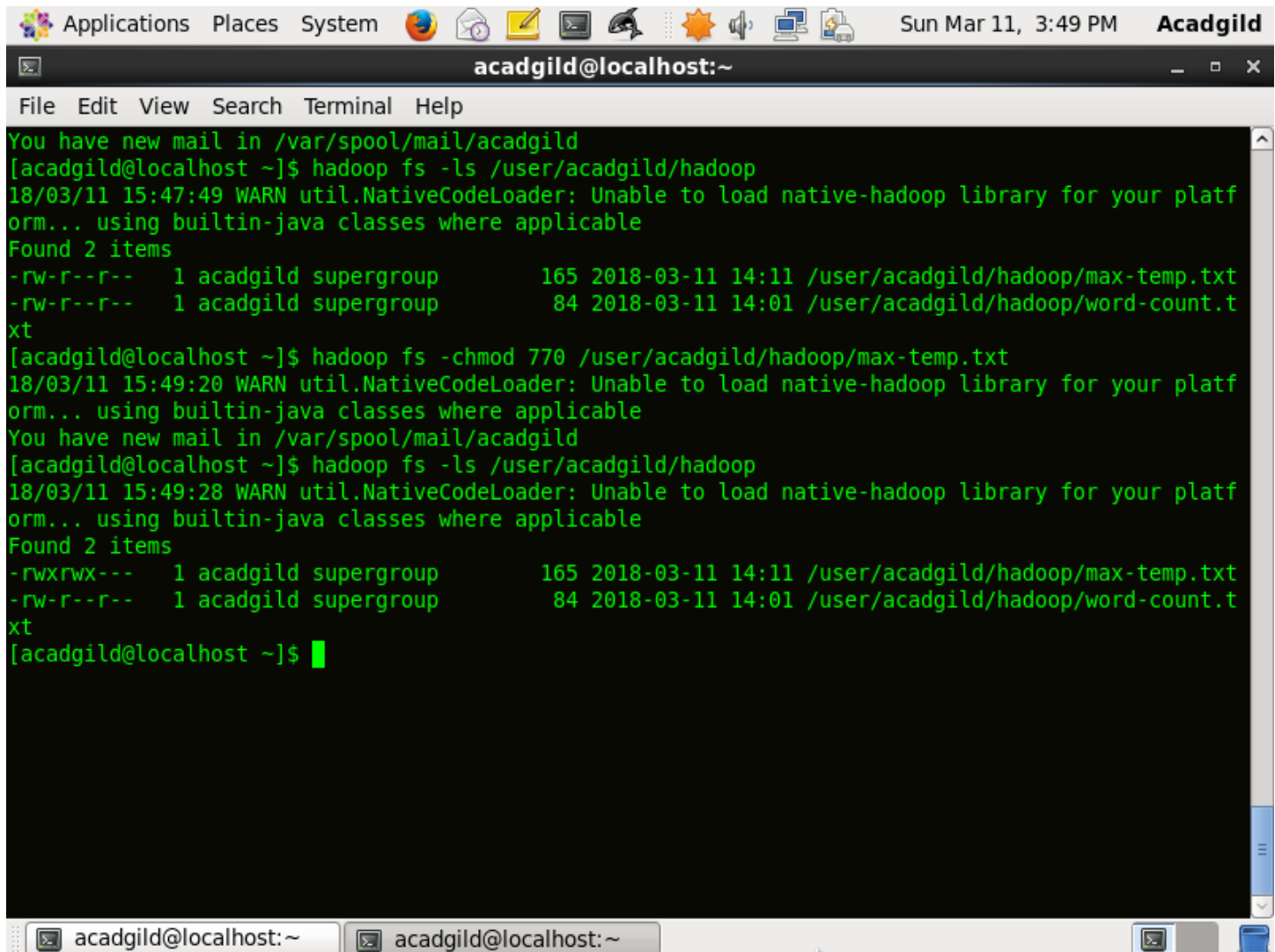


```
Applications Places System [icons] [mail] [calendar] [terminal] [network] [sun] [volume] [network] [network] [network] Sun Mar 11, 2:11 PM Acadgild
acadgild@localhost:~
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ sudo nano max-temp.txt
[sudo] password for acadgild:
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-temp.txt
10-01-2017, 20
10-02-2017, 25
10-03-2017, 30
10-04-2017, 32
10-05-2017, 37
10-07-2017, 36
10-08-2017, 33
10-09-2017, 32
10-10-2017, 36
10-11-2017, 30
10-12-2017, 25
[acadgild@localhost ~]$ hadoop fs -put max-temp.txt /user/acadgild/hadoop
18/03/11 14:11:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/11 14:11:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 165 2018-03-11 14:11 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 84 2018-03-11 14:01 /user/acadgild/hadoop/word-count.t
xt
[acadgild@localhost ~]$
```

TASK 4 :

It follows a 3 digit notation corresponding to permissions for owner group and others correspondingly. 4 means read, 6 means read/write and 7 means read/write/execute

Run the command **hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt**



The screenshot shows a terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar at the top (Applications, Places, System, icons, Sun Mar 11, 3:49 PM, Acadgild). The terminal output is as follows:

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/11 15:47:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
Found 2 items
-rw-r--r--    1 acadgild supergroup          165 2018-03-11 14:11 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--    1 acadgild supergroup           84 2018-03-11 14:01 /user/acadgild/hadoop/word-count.t
xt
[acadgild@localhost ~]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/03/11 15:49:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/03/11 15:49:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
Found 2 items
-rwxrwx---    1 acadgild supergroup          165 2018-03-11 14:11 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--    1 acadgild supergroup           84 2018-03-11 14:01 /user/acadgild/hadoop/word-count.t
xt
[acadgild@localhost ~]$
```

The terminal window has two tabs at the bottom, both labeled 'acadgild@localhost:~'. The system bar at the top shows the date and time as 'Sun Mar 11, 3:49 PM' and the username 'Acadgild'.