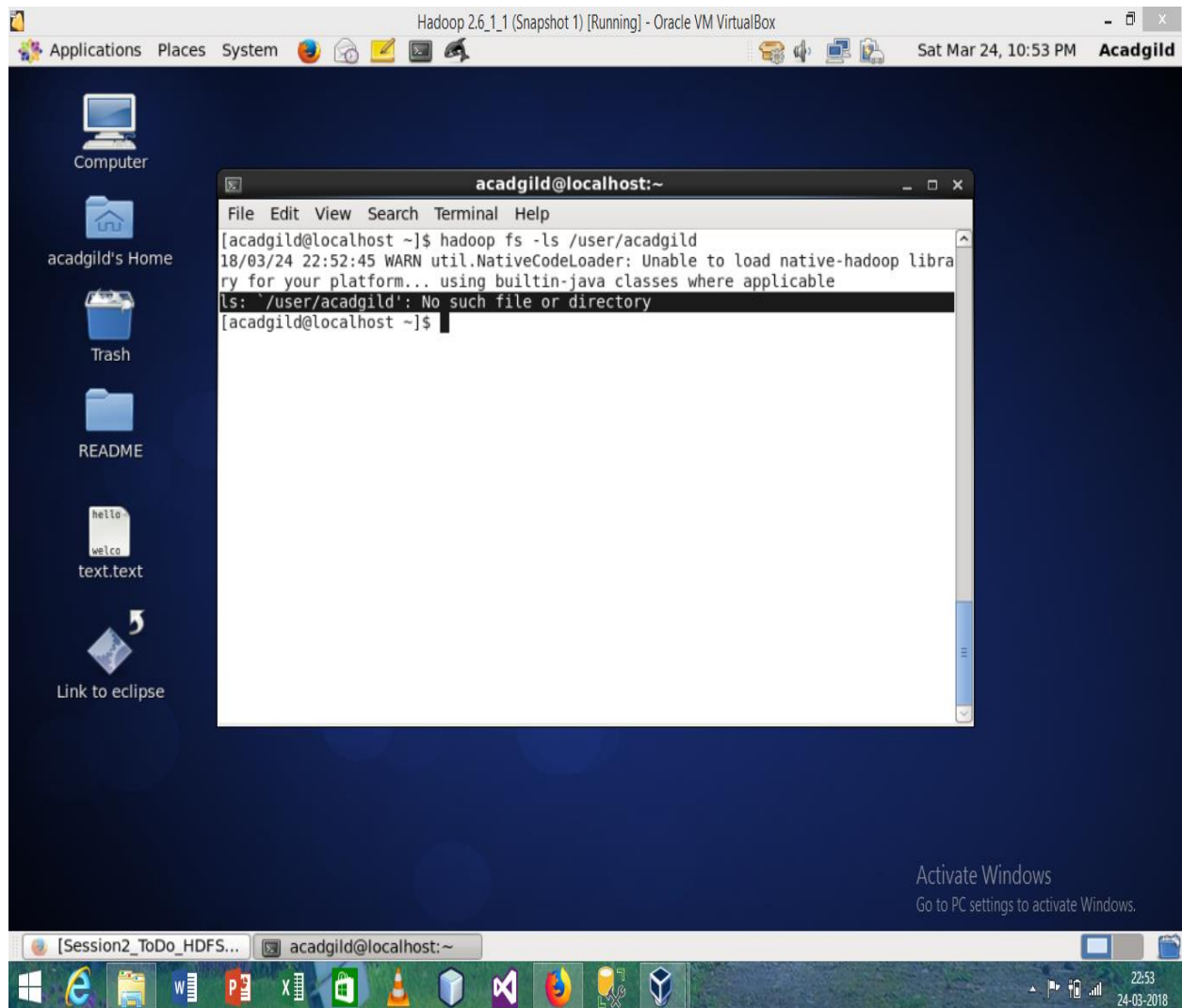


Question1: Check whether /user/acadgild directory exists or not in the HDFS. If it doesn't exist, then create this. Create a directory /user/acadgild/hadoop.

Solution: there is no directory named as Acadgild in /user. So we have to create it using

Checking for /user/acadgild



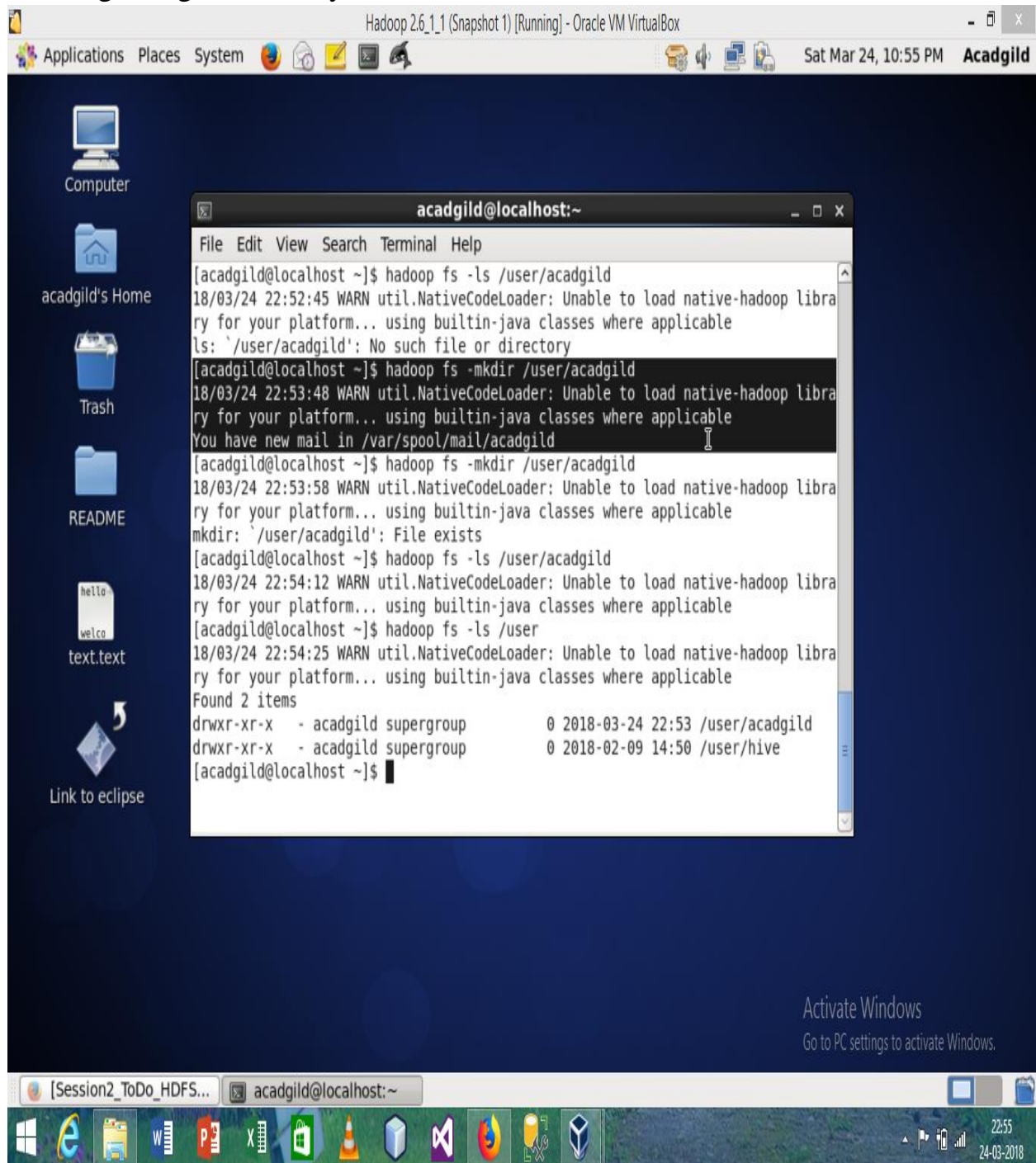
We have to make the directory using

`hadoop fs -mkdir /user/acadgild`

after this we will create one more directory inside acadgild using

`hadoop fs -mkdir /user/acadgild/hadoop`

Creating acadgild directory



Creating hadoop inside acadgild

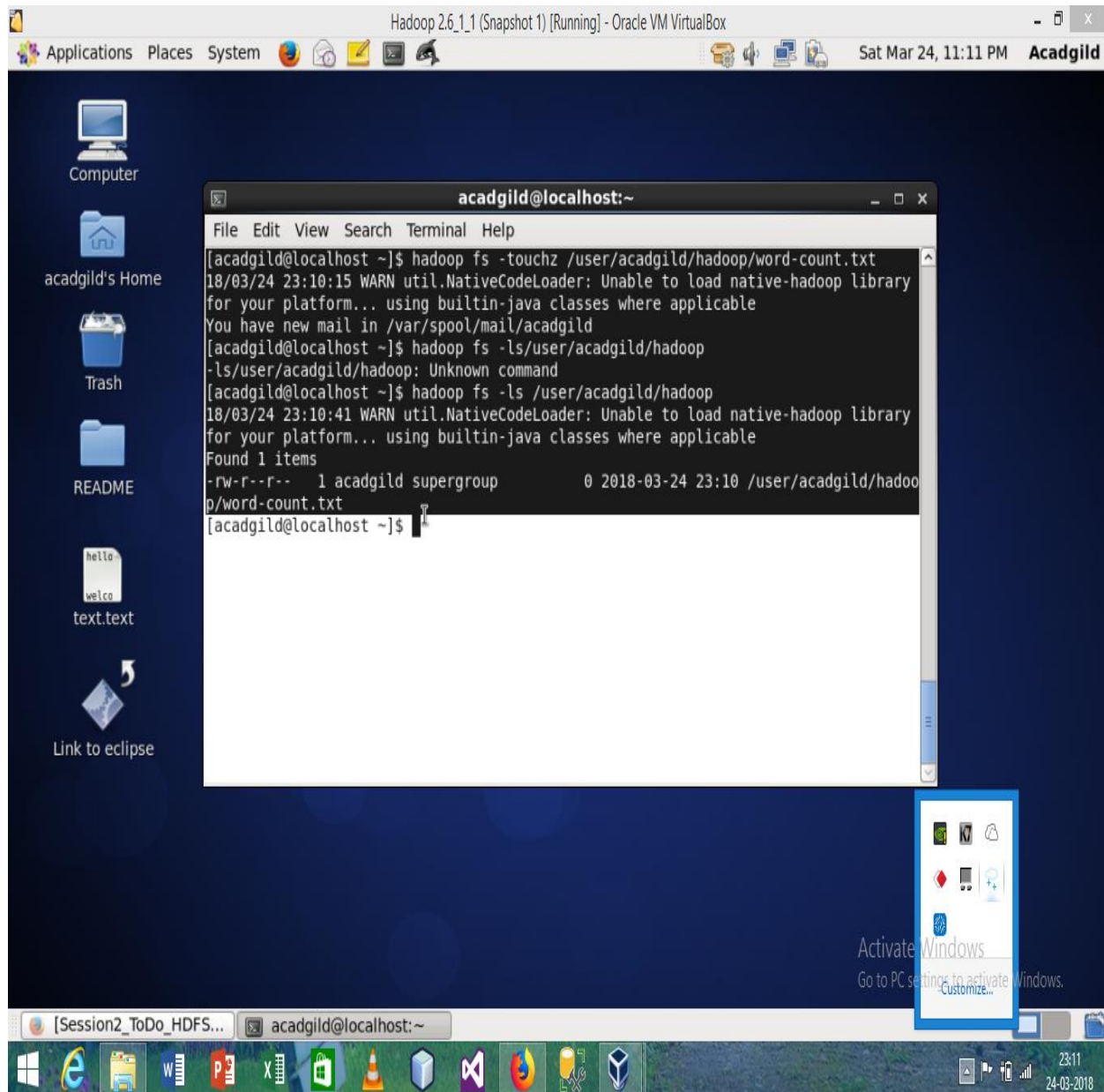


Question 2: Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt. Whatever we type on screen should get appended to the file. Try to type (on screen) few lines from any online article or textbook.

Solution: we will use touchz command to create zero byte size file

hadoop fs -touchz /user/acadgild/hadoop/word-count.txt

Output is shown below



```
Hadoop 2.6.1.1 (Snapshot 1) [Running] - Oracle VM VirtualBox
Applications Places System
Sat Mar 24, 11:11 PM Acadgild

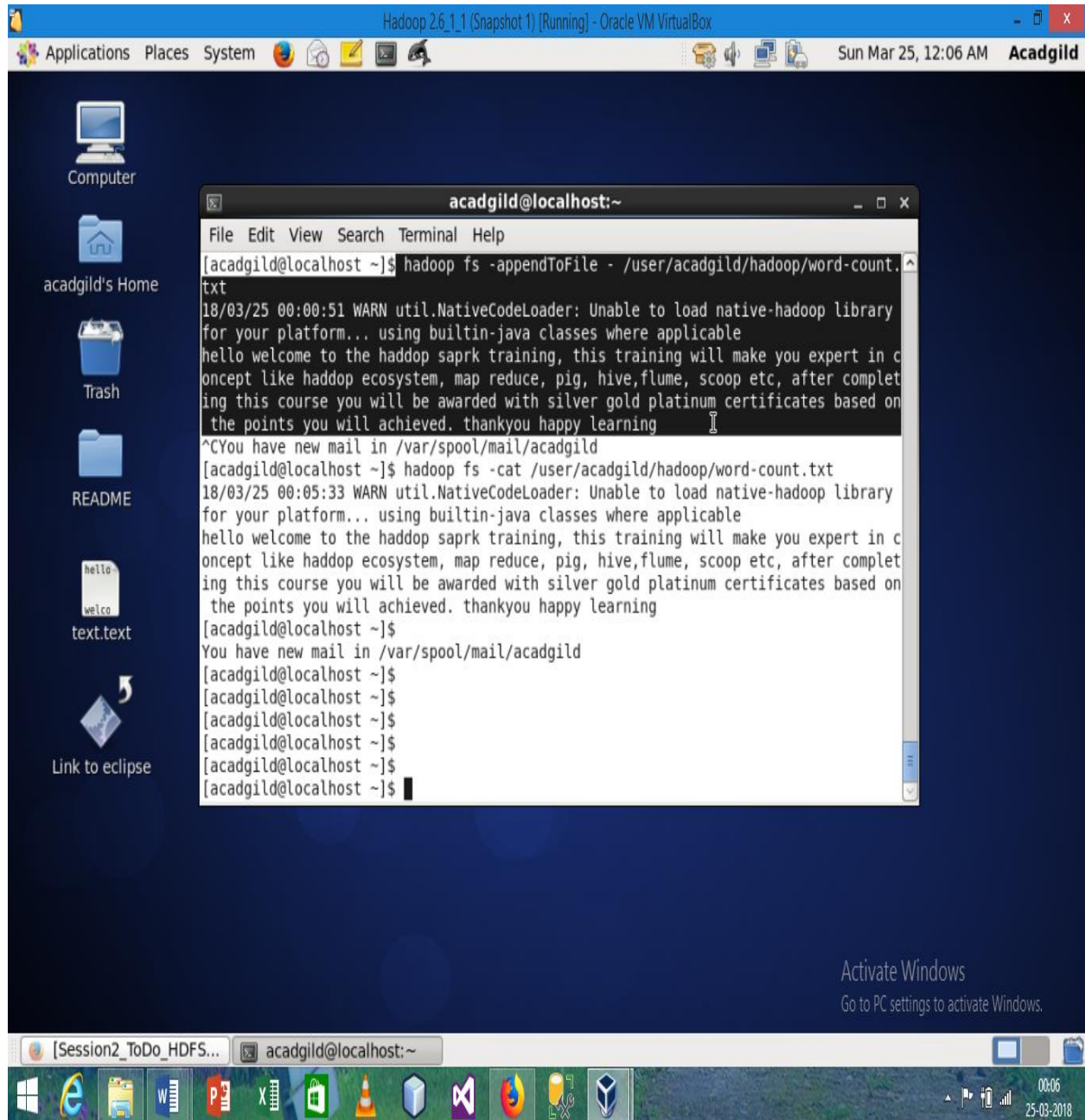
Computer
acadgild's Home
Trash
README
hello
welco
text.text
Link to eclipse

acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/03/24 23:10:15 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/hadoop
-rw-r--r-- 1 acadgild supergroup 0 2018-03-24 23:10 /user/acadgild/hadoop/
p/word-count.txt
[acadgild@localhost ~]$
```


To append something in the file whatever we will write on screen we use command

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

Output is shown below (black portion)



The screenshot shows a terminal window titled 'acadgild@localhost:~' within an Oracle VM VirtualBox environment. The terminal displays the following commands and output:

```
[acadgild@localhost ~]$ hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/03/25 00:00:51 WARN util.NativeCodeLoader: Unable to load native-hadoop library
for your platform... using builtin-java classes where applicable
hello welcome to the haddop saprk training, this training will make you expert in c
oncept like haddop ecosystem, map reduce, pig, hive,flume, scoop etc, after complet
ing this course you will be awarded with silver gold platinum certificates based on
the points you will achieved. thankyou happy learning
^CYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/03/25 00:05:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library
for your platform... using builtin-java classes where applicable
hello welcome to the haddop saprk training, this training will make you expert in c
oncept like haddop ecosystem, map reduce, pig, hive,flume, scoop etc, after complet
ing this course you will be awarded with silver gold platinum certificates based on
the points you will achieved. thankyou happy learning
[acadgild@localhost ~]$
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
```

The background of the terminal window shows a desktop environment with icons for 'Computer', 'acadgild's Home', 'Trash', 'README', 'hello text.txt', and 'Link to eclipse'. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 00:06 on 25-03-2018.

Cat command to see the content of the file

```
Hadoop fs -cat /user/acadgild/hadoop/word-count.txt
```

Question 3: Create a file max-temp.txt in local FS. Put some 10-15 records of date and temperature example:

Dd-mm-yyyy, temperature

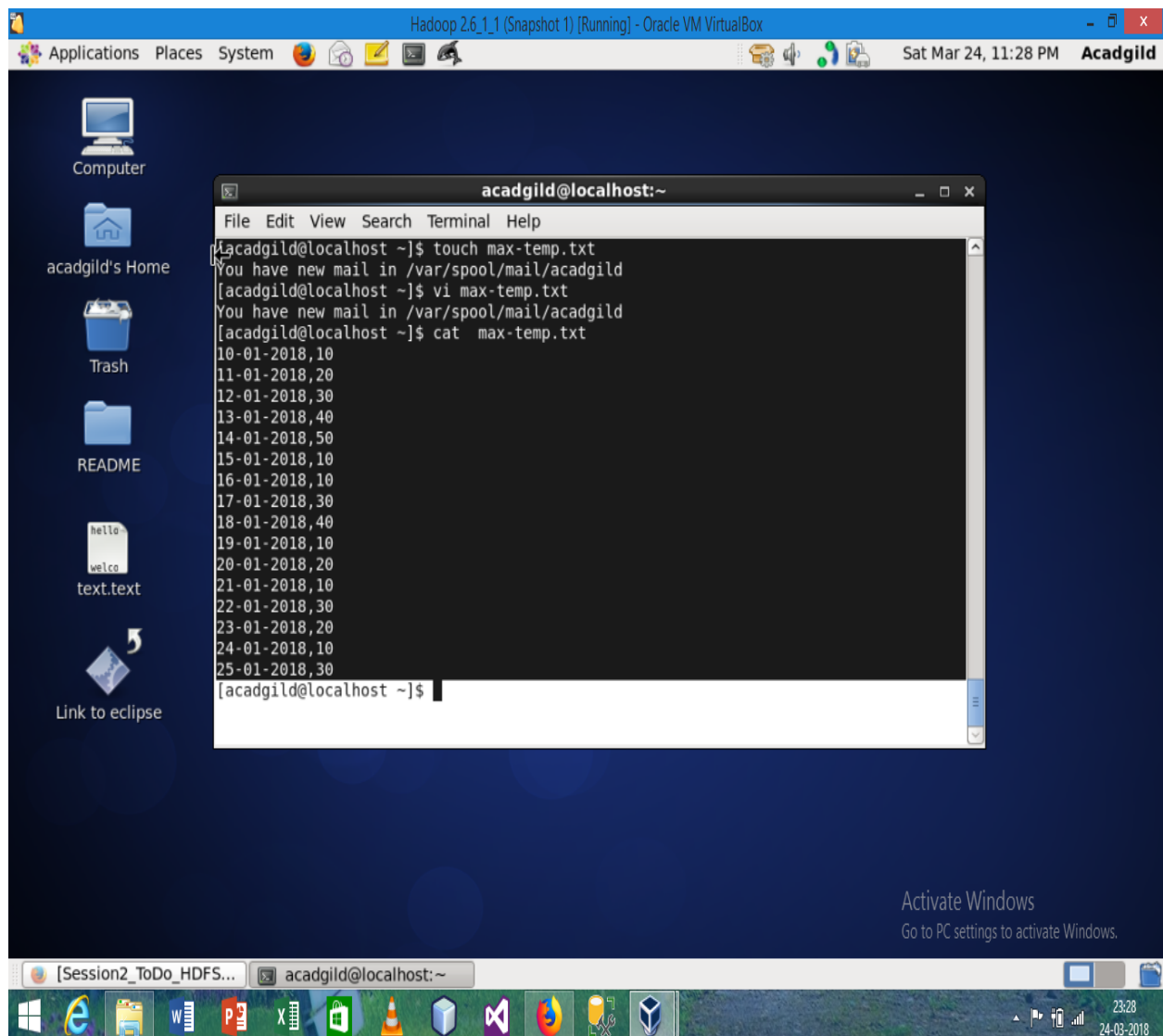
Example:

10-01-1990, 10

10-02-1991, 20

Move this file to HDFS at /user/acadgild/hadoop.

Solution: To create file in local system we simply use command
touch max-temp.txt



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "acadgild@localhost:~". The terminal output shows the following commands and their results:

```
acadgild@localhost ~]$ touch max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ vi max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-temp.txt
10-01-2018,10
11-01-2018,20
12-01-2018,30
13-01-2018,40
14-01-2018,50
15-01-2018,10
16-01-2018,10
17-01-2018,30
18-01-2018,40
19-01-2018,10
20-01-2018,20
21-01-2018,10
22-01-2018,30
23-01-2018,20
24-01-2018,10
25-01-2018,30
[acadgild@localhost ~]$
```

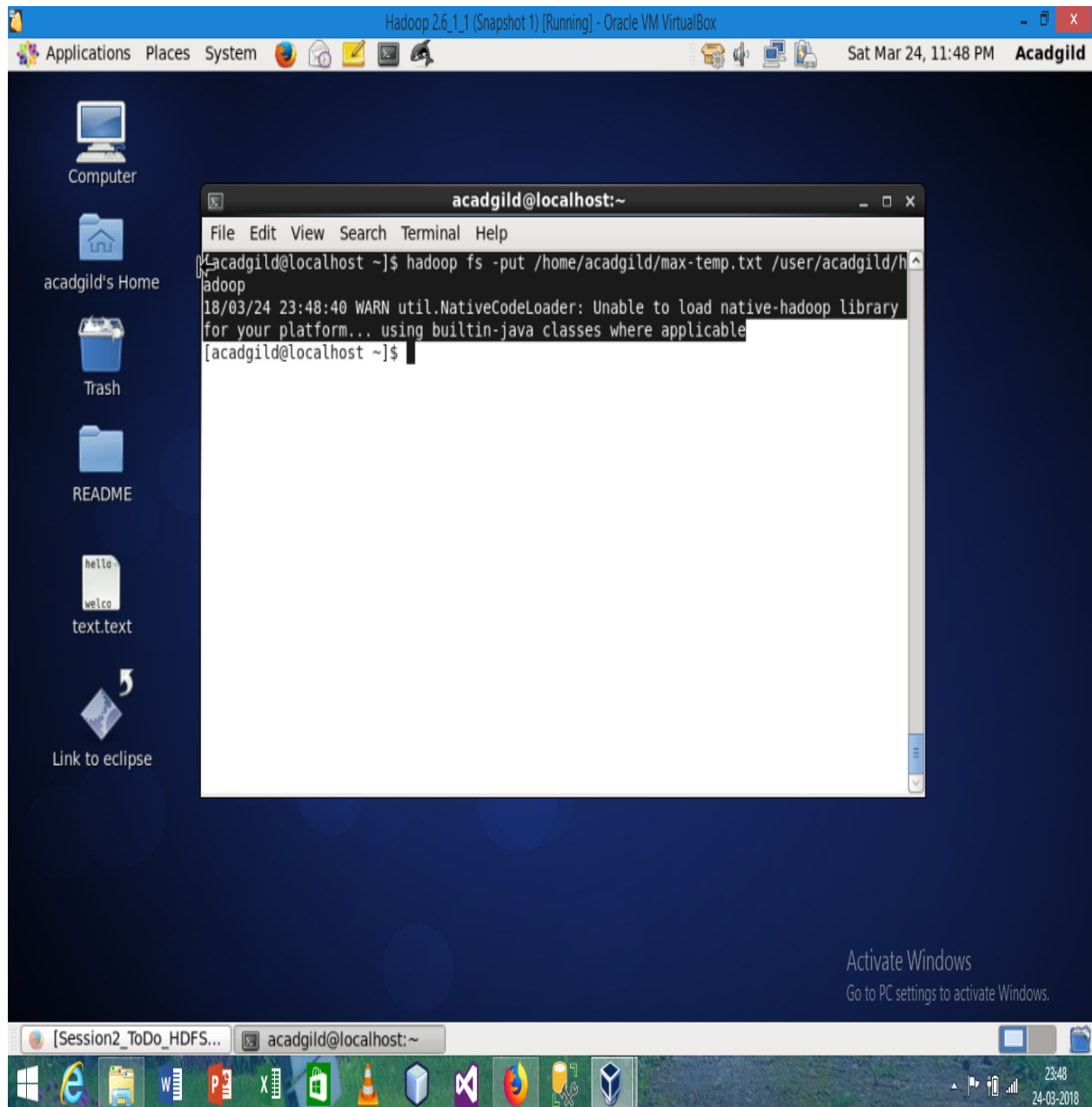
The desktop background is dark blue. The left sidebar shows icons for "Computer", "acadgild's Home", "Trash", "README", "hello", "text.text", and "Link to eclipse". The top panel shows the system menu with "Applications", "Places", and "System". The bottom panel shows the taskbar with various application icons and the system clock showing "23:28" and "24-03-2018".

We add the data by simply using vi editor by using command

`vi max-temp.txt`

by pressing `i` we will go to insert mode and add data into it, by pressing `ESC` we will come back to command mode and by writing `:wq!` We will save and quit the file.

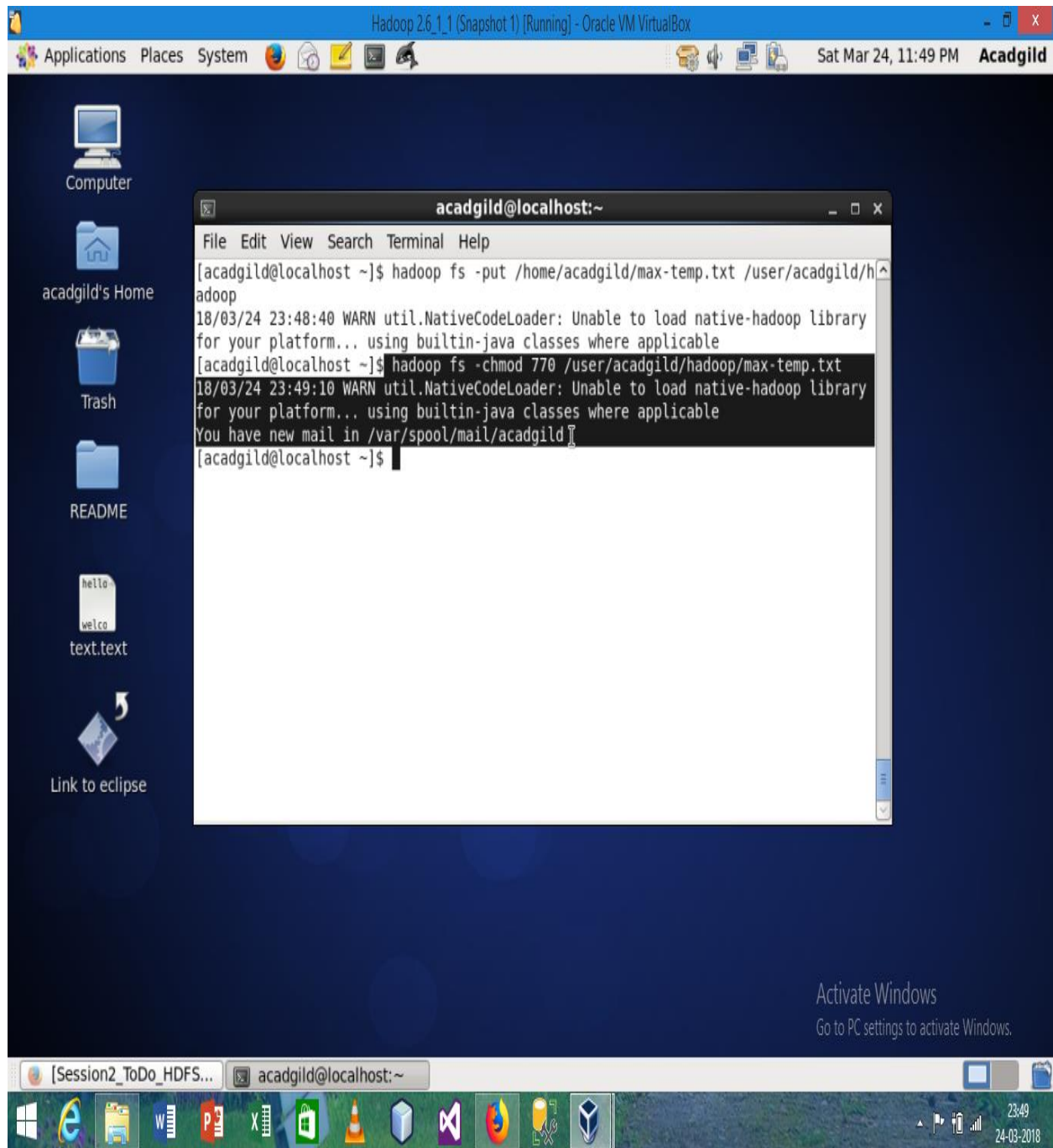
We will move the file to hdfs by using `put` command as shown in screenshot



Question 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.

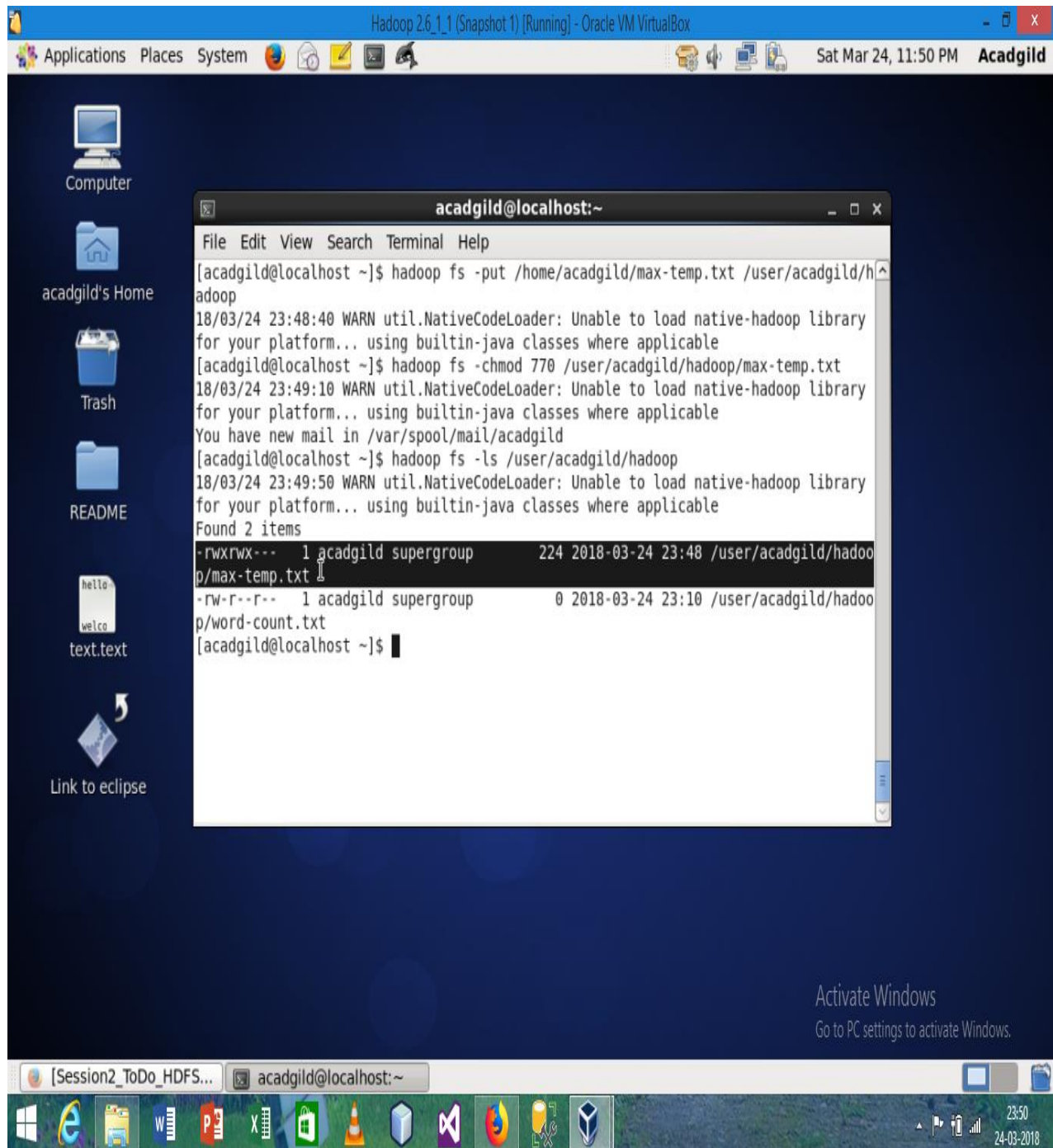
Answer: we will change the permission of file using chmod command.

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



Now the permission will be changed to `-rwxrwx---`

Same is mentioned in screenshot



— .
—
—
— .
—
—
—
—