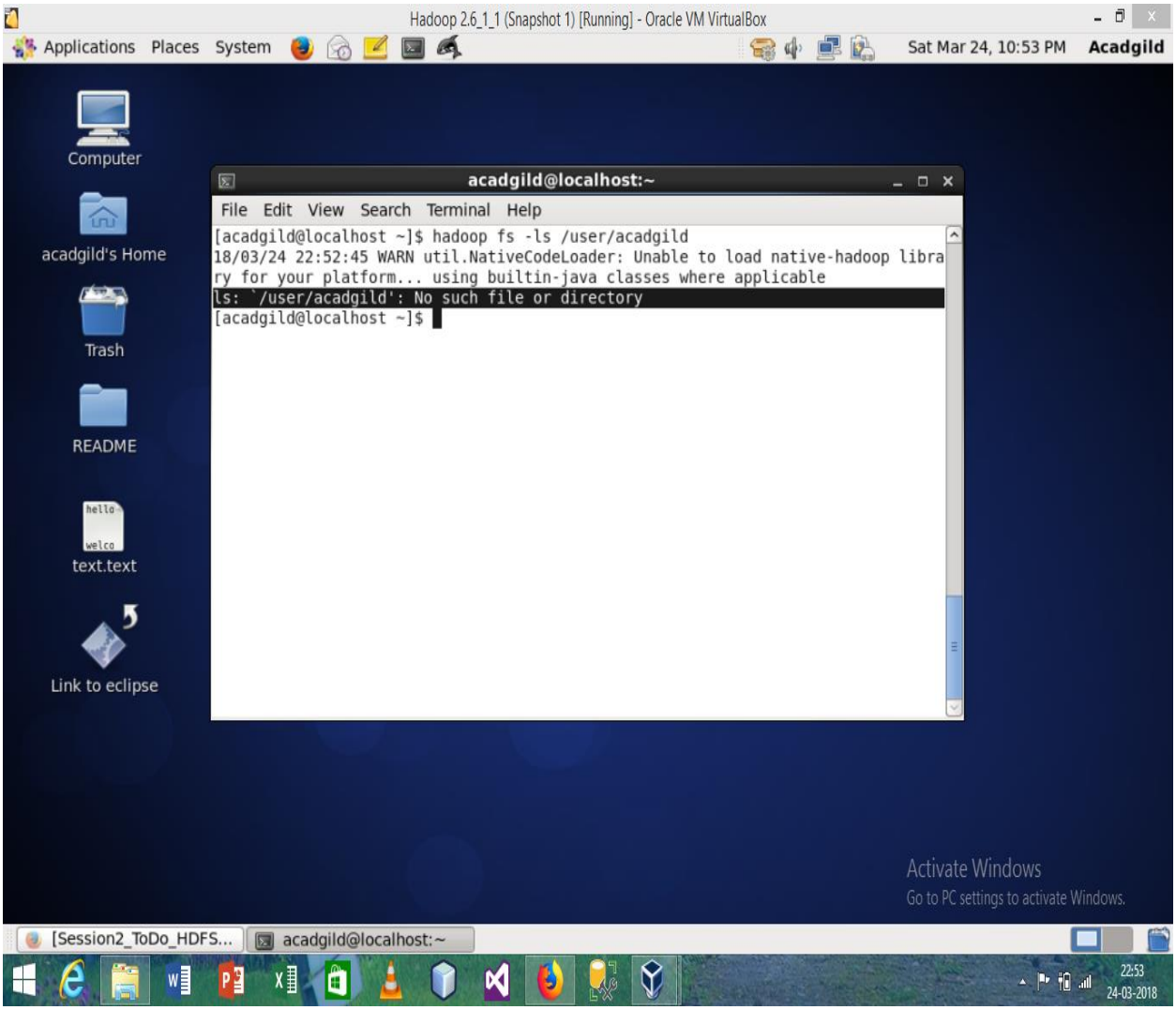
Question1: Check whether /user/acadgild directory exists or not in the HDFS. If it doesn't exist, then create this. Create a directory /user/acadgild/hadoop.

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

Checking for /user/acadgild



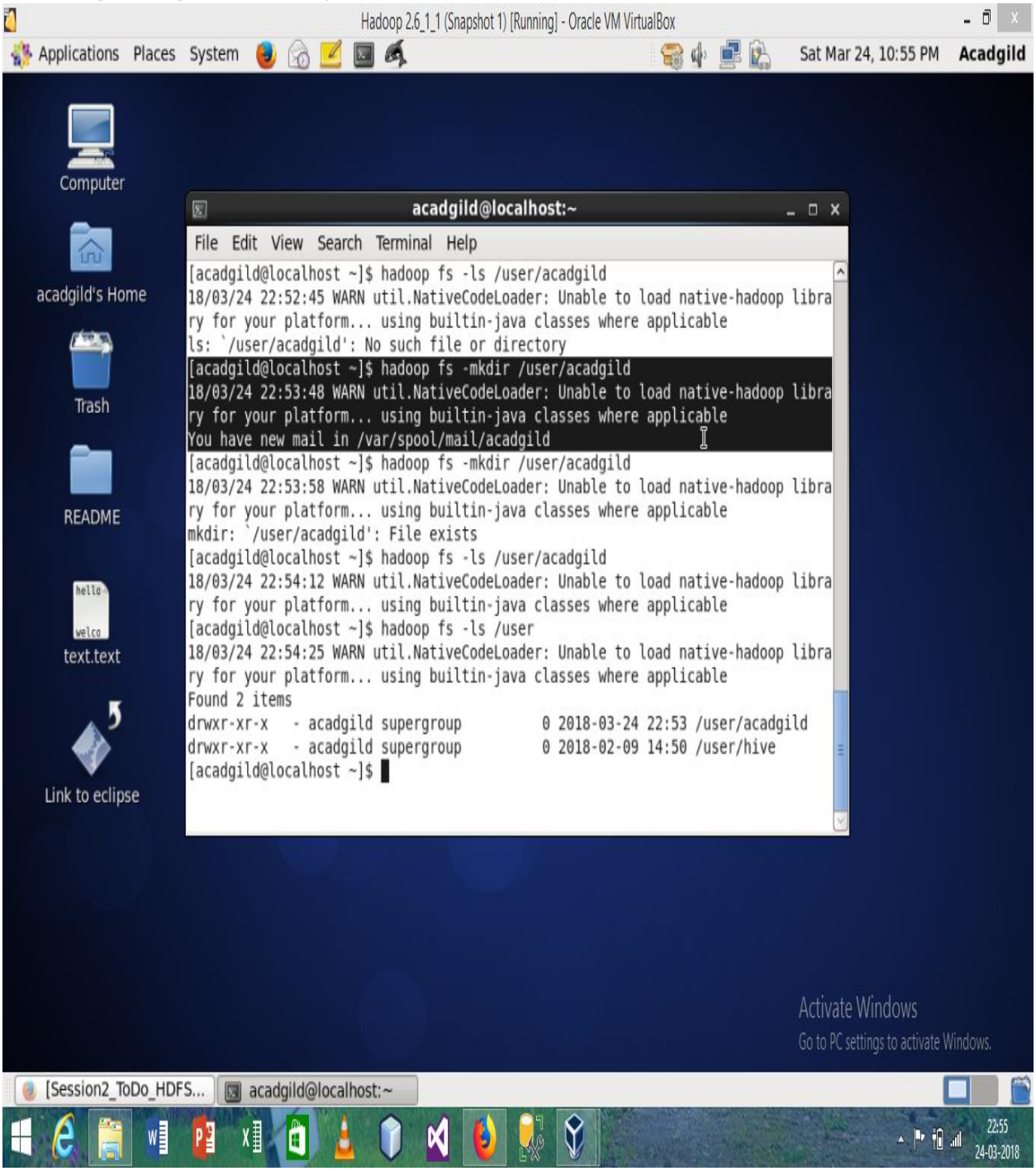
We have to make the directory using

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



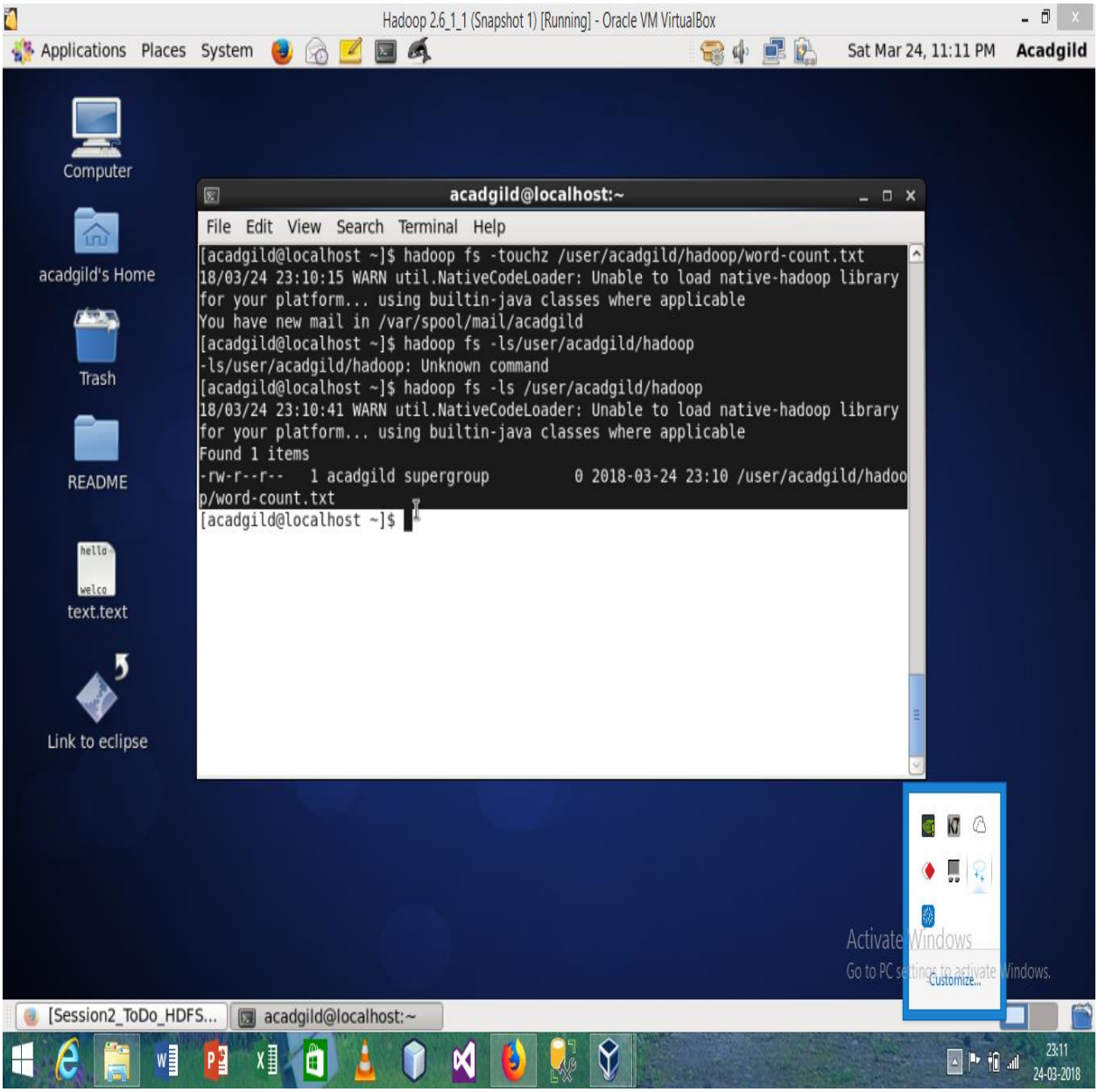
Creating hadoop inside acadgild

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

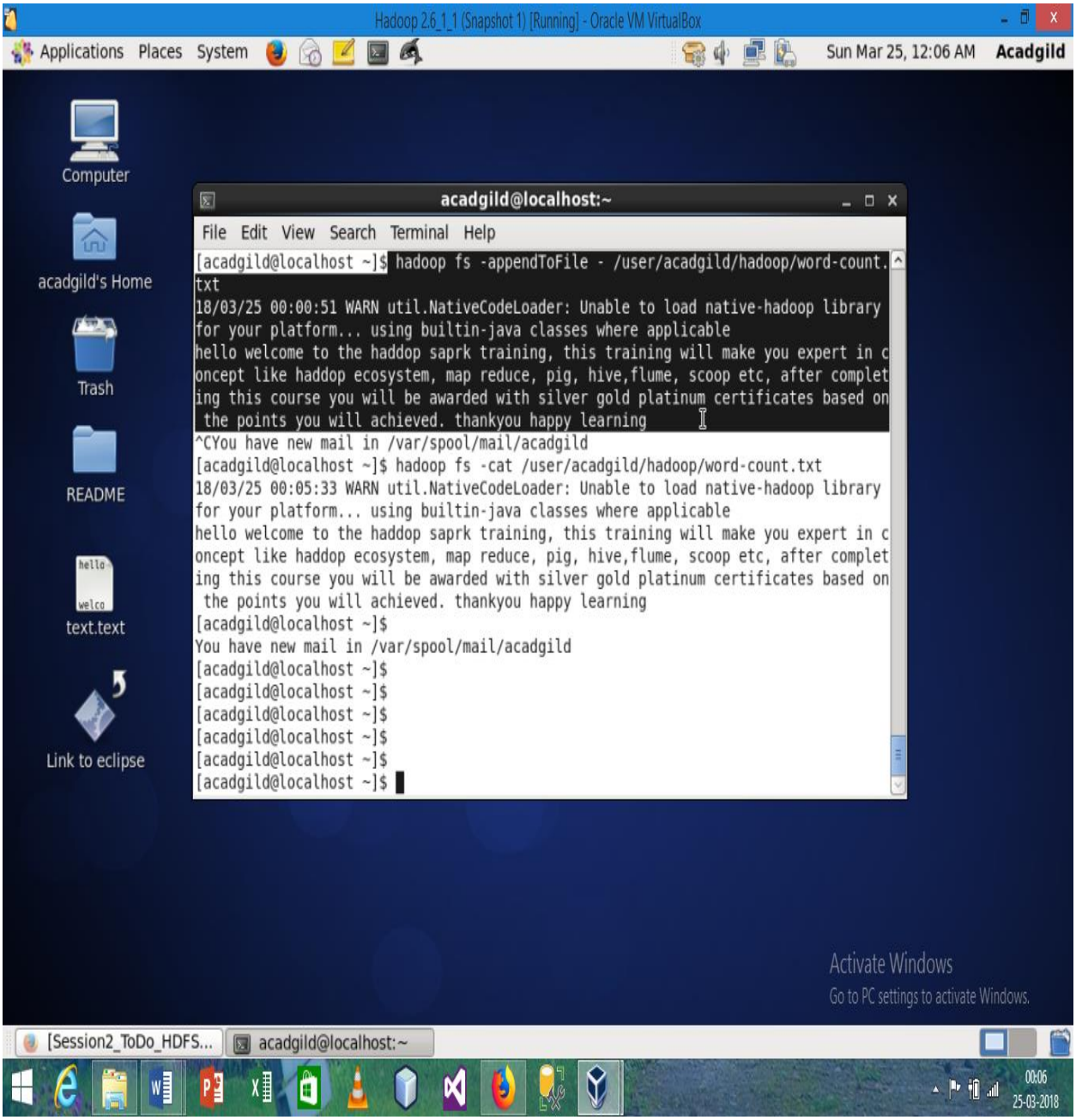
Output is shown below



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)



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:

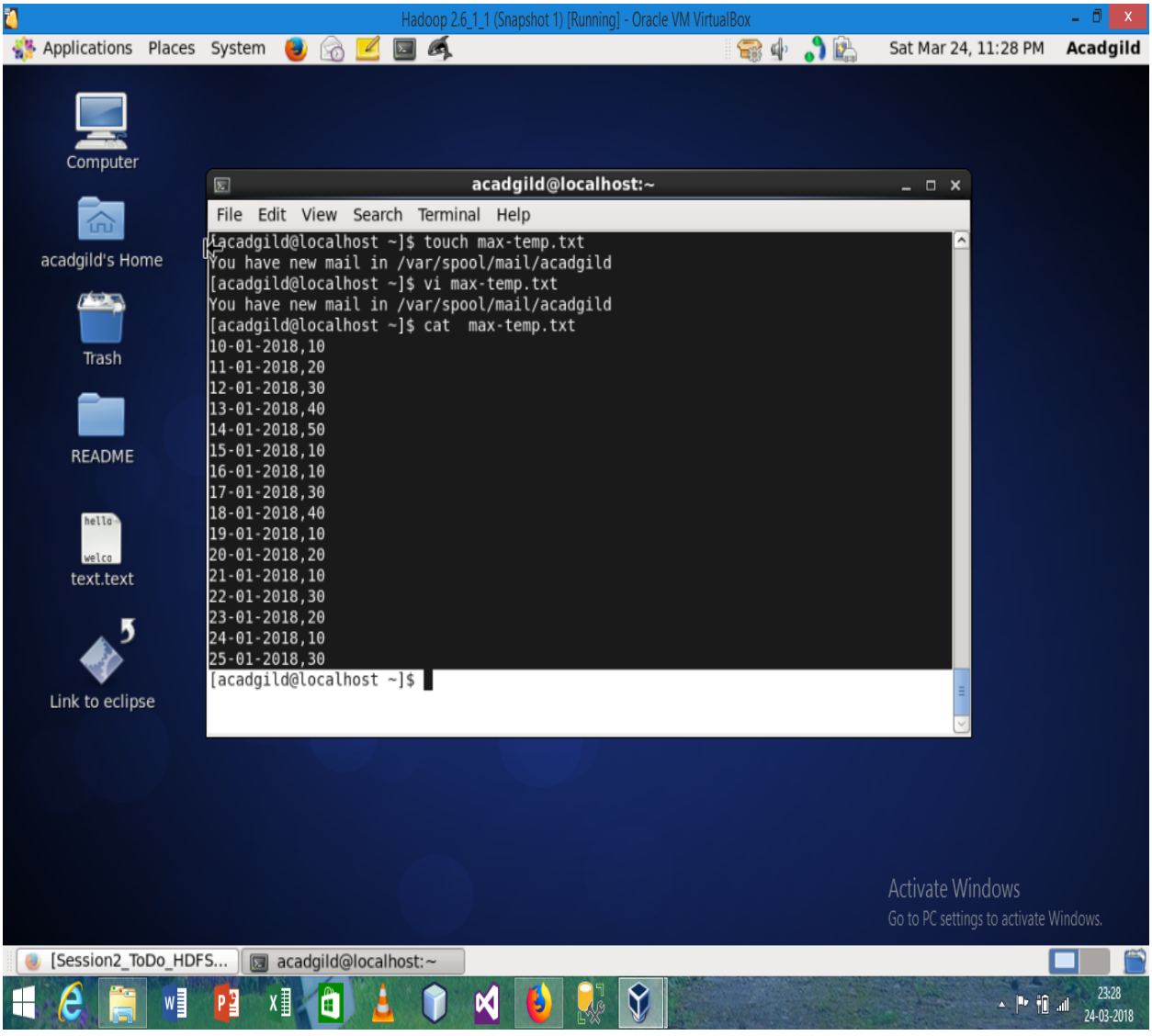
10-01-1990, 10

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

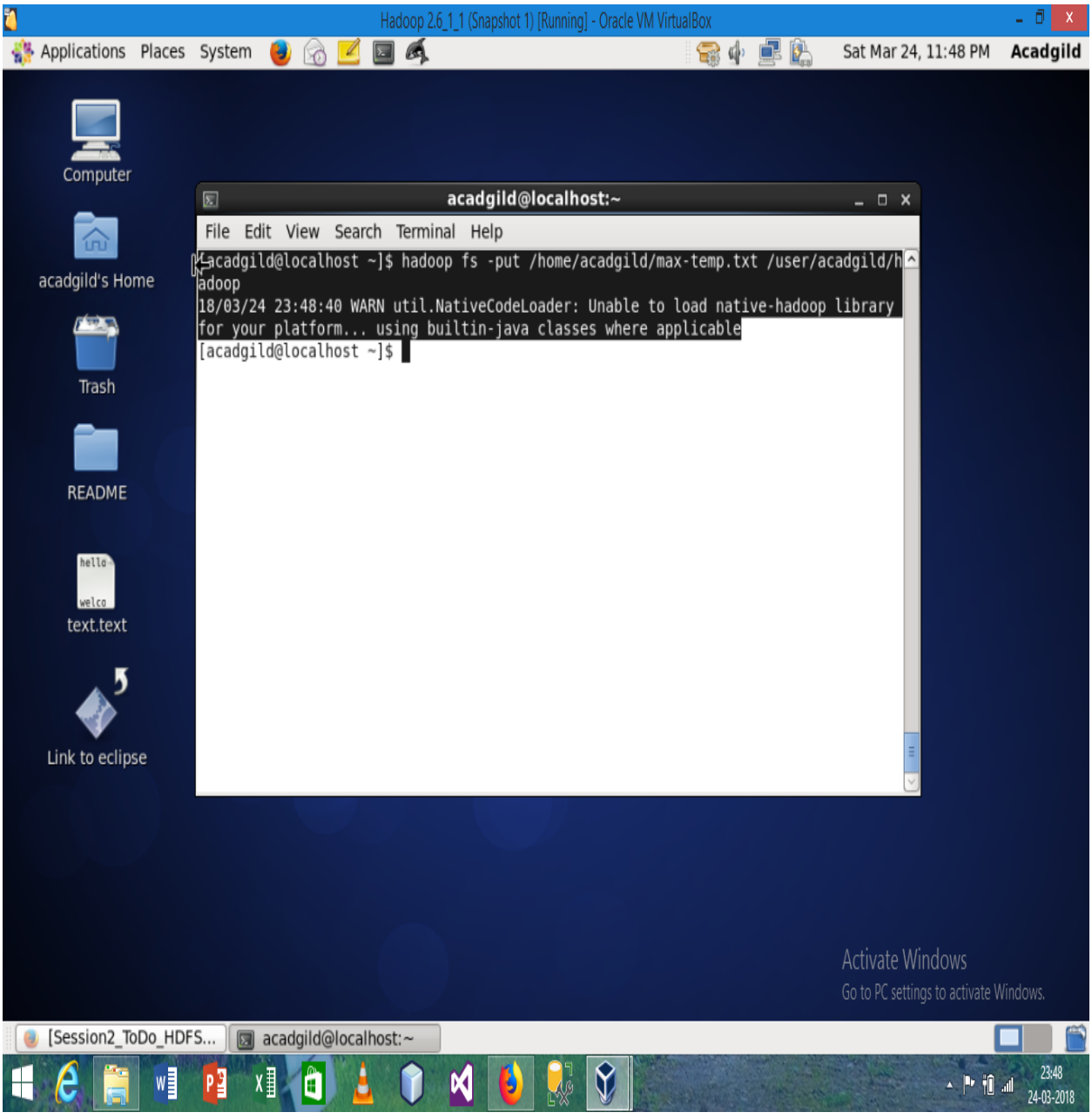


We add the data by simply using vi editor by using command

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.

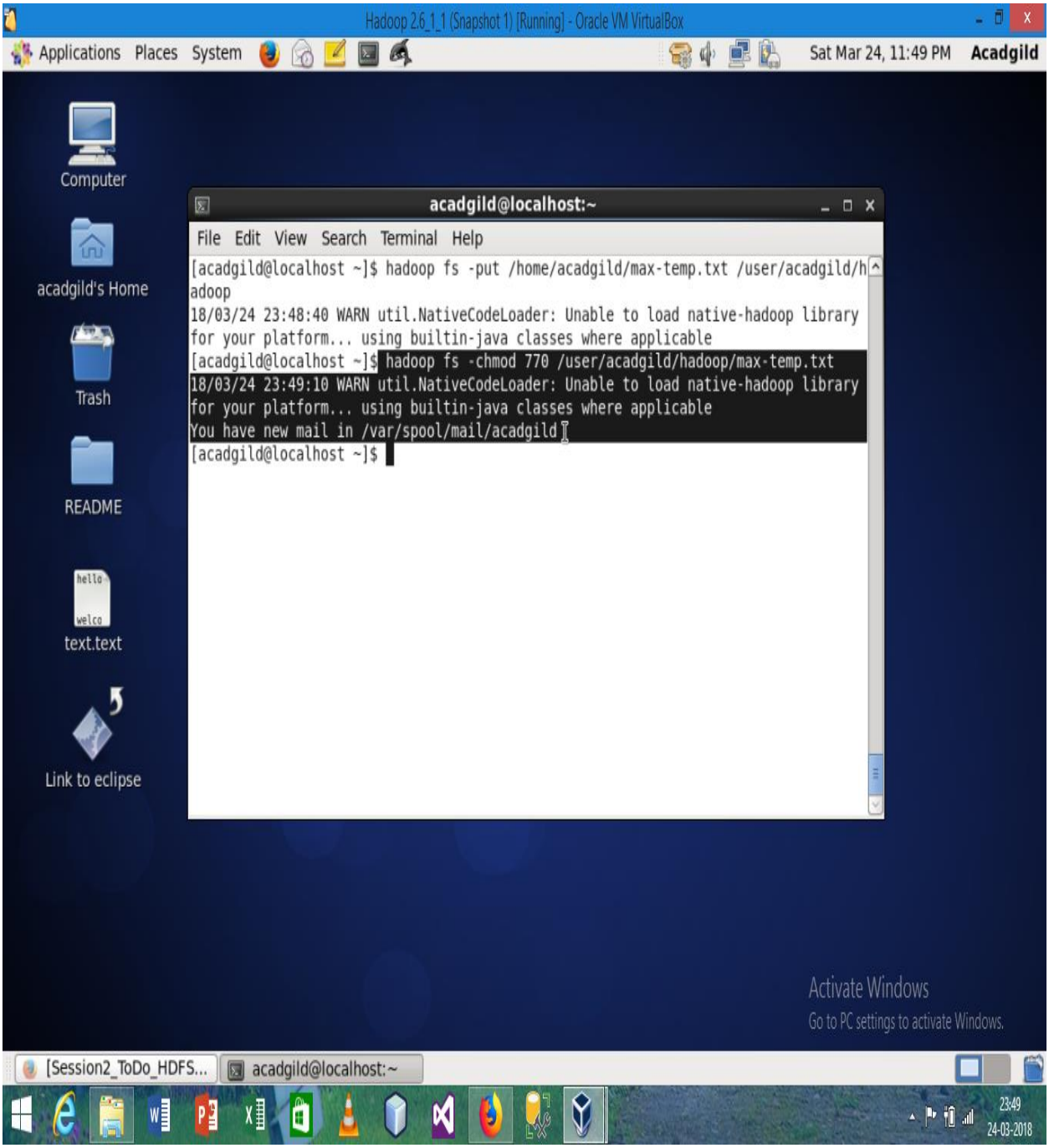
We will move the file to hdfs by using put command as shown in screenshot

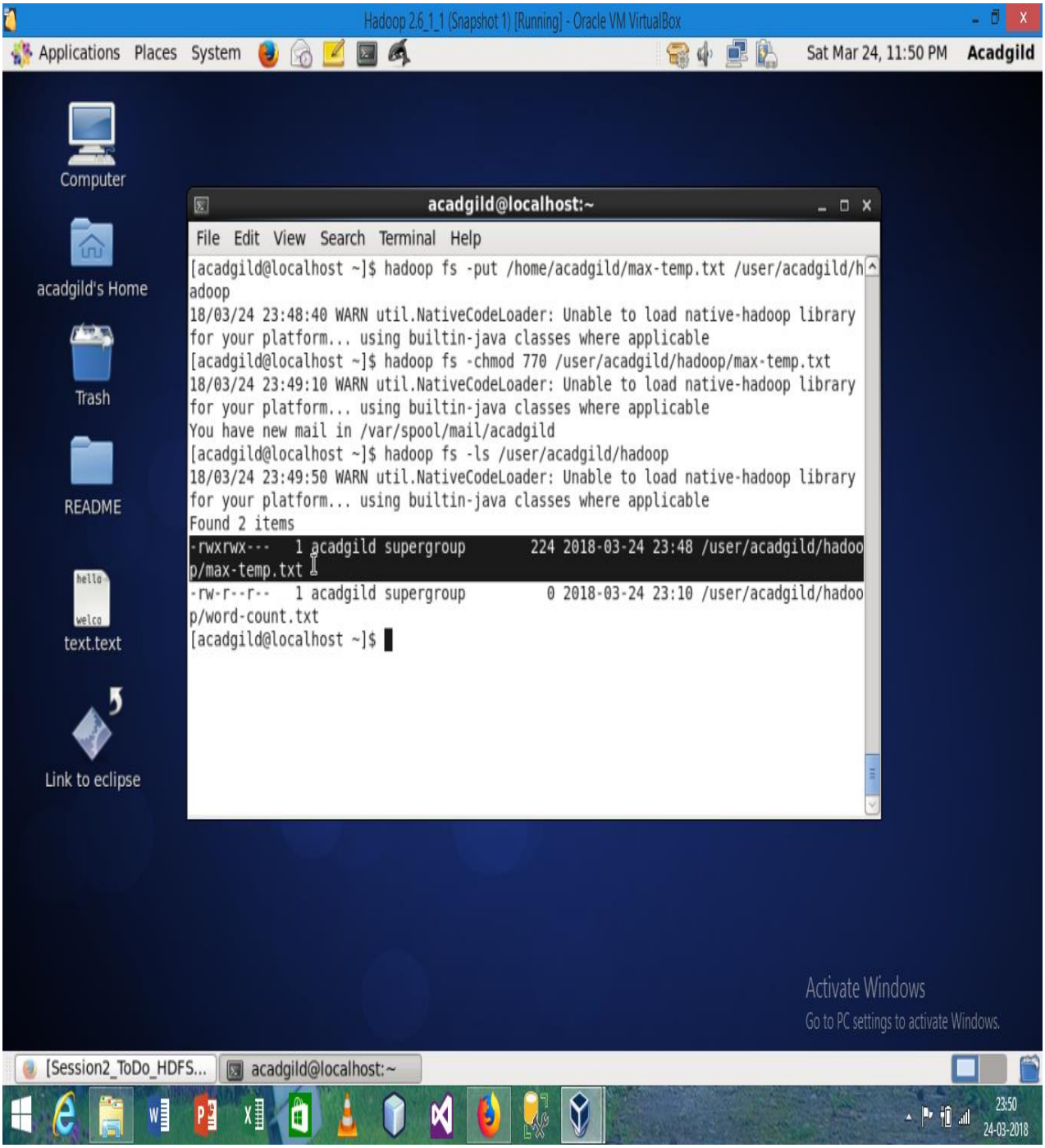


Question 4: Change the permission of the file /user/acadgild/hadoop/max-temp.txt, such that only the owner and the group members have full control over the file. Others do not have any control over it.

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 changed to –rwxrwx---

Same is mention in screenshot