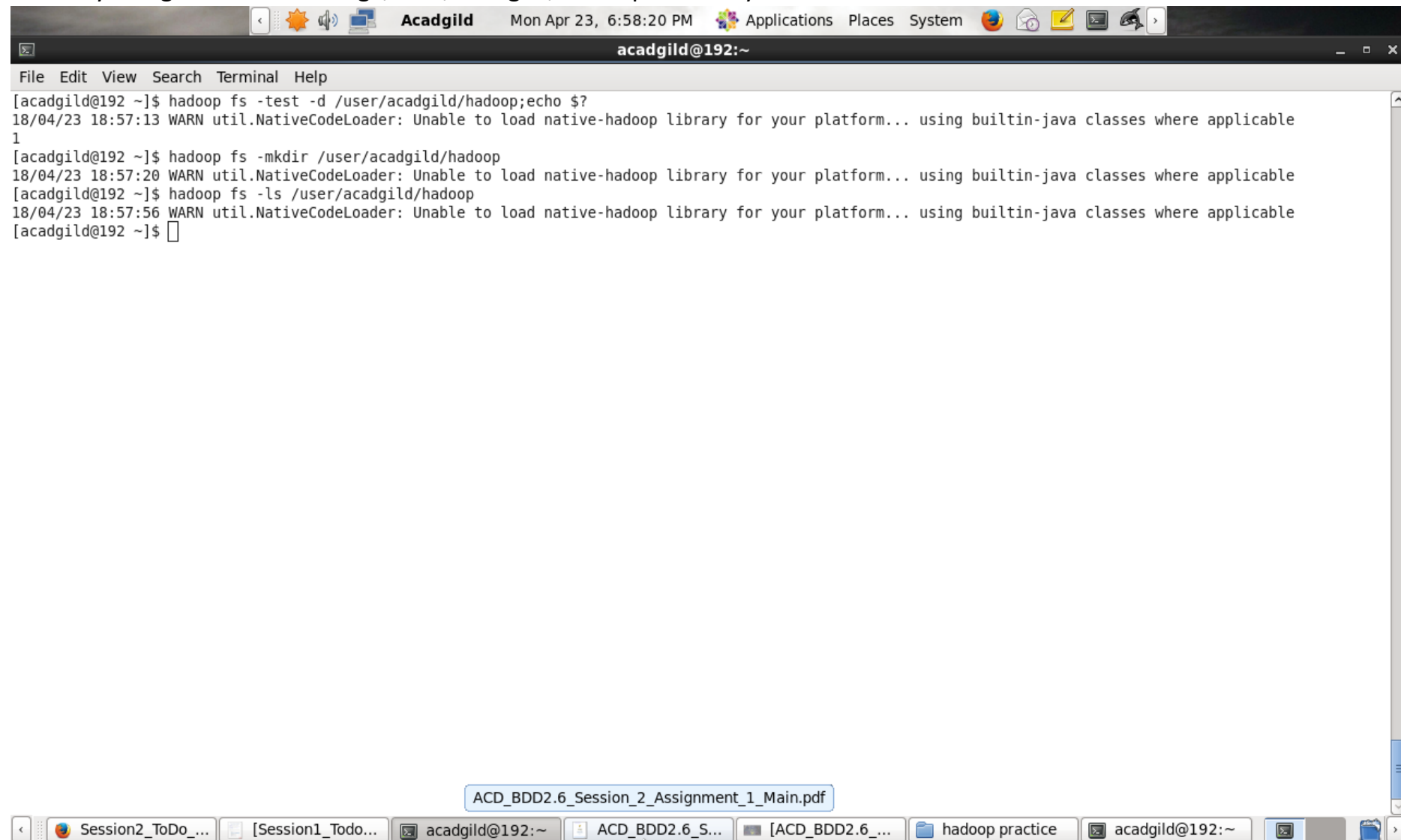


Task 1: Checking whether /user/acadgild directory exists or not in the HDFS, if not create the same – here echo \$? Will return 1 if not exists, if exists it will return 0.

Similarly using –MKDIR creating /user/acadgild/hadoop directory.



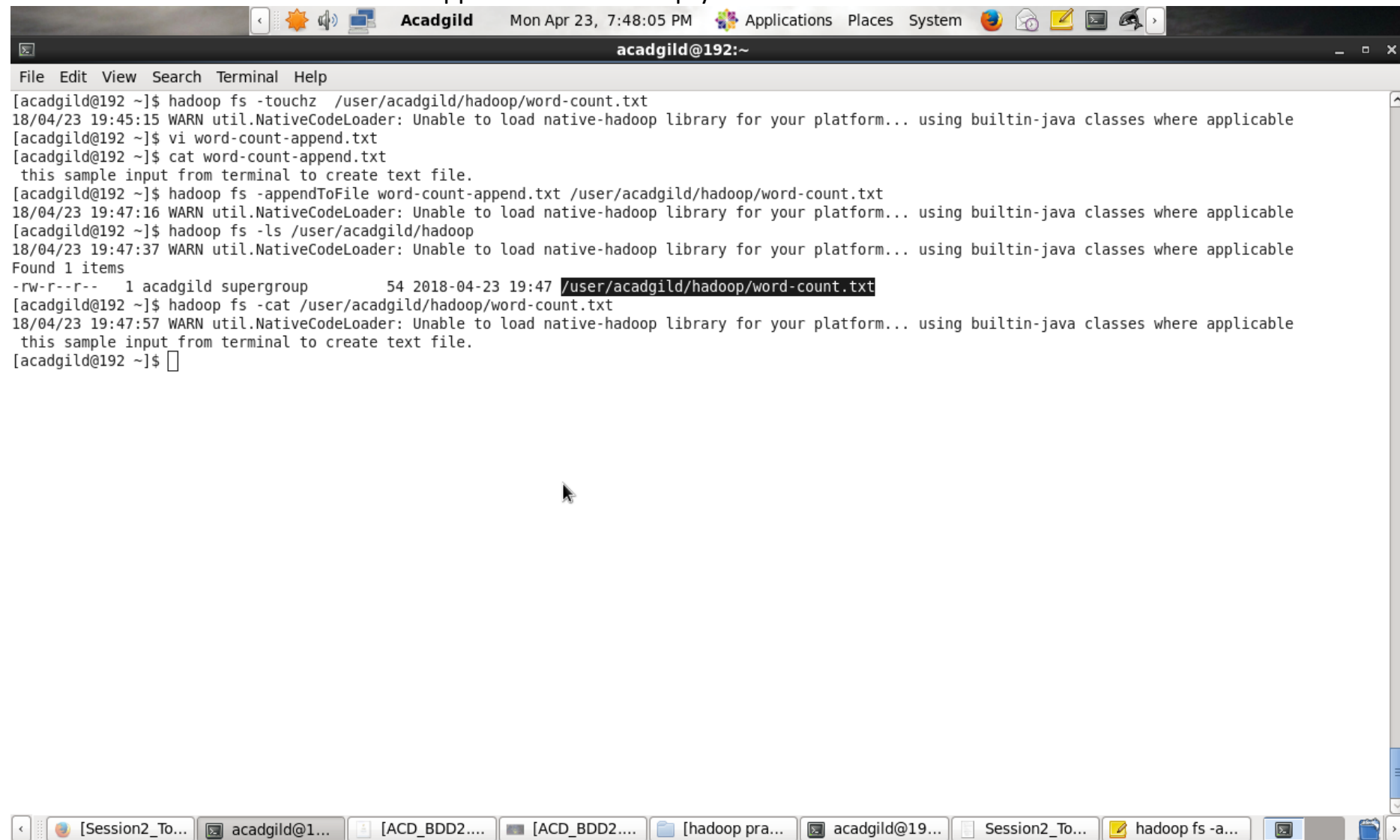
The image shows a terminal window titled 'acadgild@192:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar at the top. The system bar includes icons for network, volume, and power, along with the name 'Acadgild' and the date/time 'Mon Apr 23, 6:58:20 PM'. The terminal displays the following commands and output:

```
[acadgild@192 ~]$ hadoop fs -test -d /user/acadgild/hadoop;echo $?  
18/04/23 18:57:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
1  
[acadgild@192 ~]$ hadoop fs -mkdir /user/acadgild/hadoop  
18/04/23 18:57:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
[acadgild@192 ~]$ hadoop fs -ls /user/acadgild/hadoop  
18/04/23 18:57:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
[acadgild@192 ~]$
```

At the bottom of the screen, there is a taskbar with several open applications: 'Session2\_ToDo\_...', '[Session1\_Todo...', 'acadgild@192:~', 'ACD\_BDD2.6\_S...', '[ACD\_BDD2.6\_...', 'hadoop practice', and 'acadgild@192:~'. A file named 'ACD\_BDD2.6\_Session\_2\_Assignment\_1\_Main.pdf' is also visible in the taskbar.

**Task 2:** Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

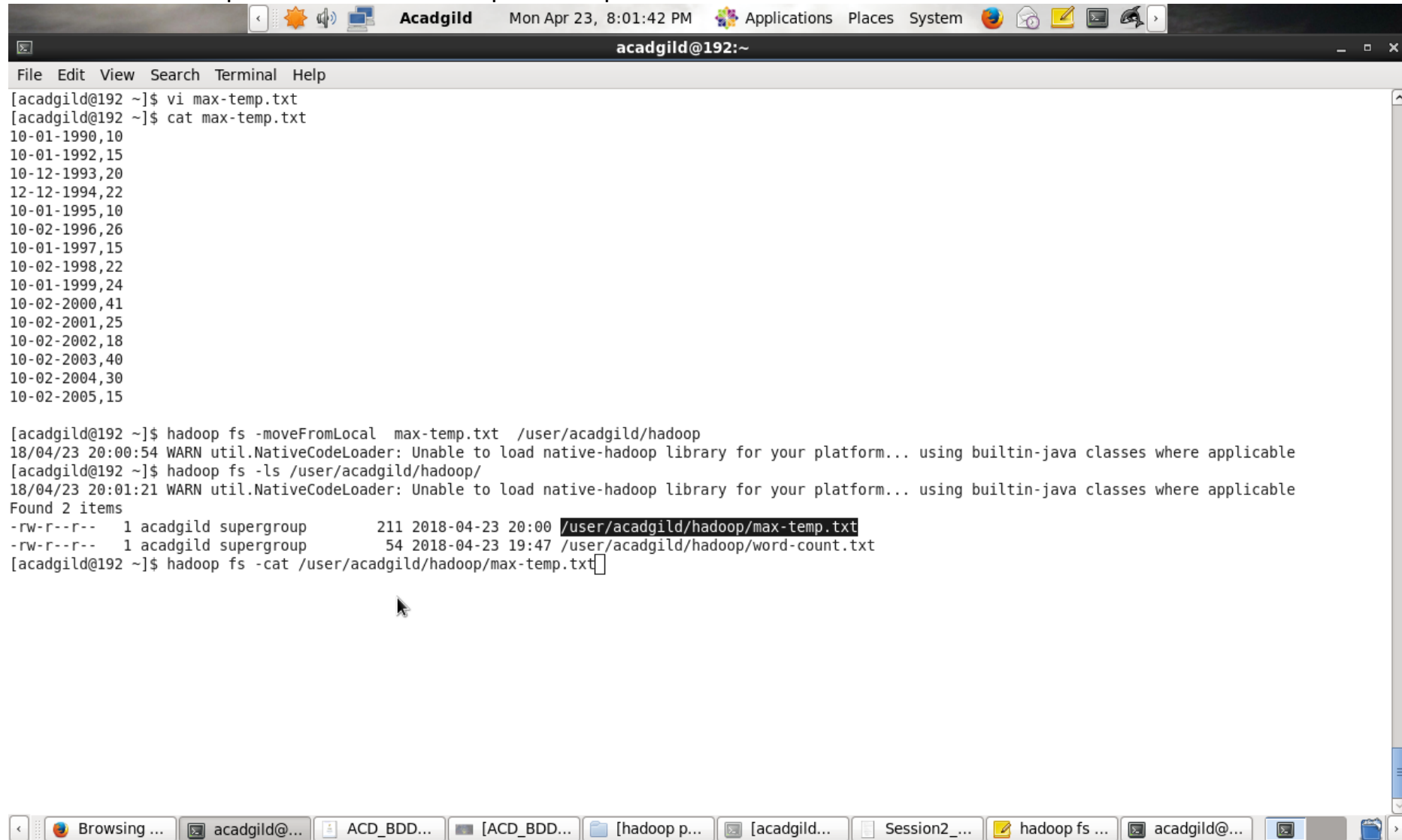
In HDFS empty file can be created using `-TOUCHZ` command but file can't be edited in HDFS instead we can read many times. But at the same time file can be appended with any other file in HDFS this is called ( WORM – write once read many times ). Here I have created file in Local FS & appended data to empty file created in HDFS.



```
[acadgild@192 ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/04/23 19:45:15 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@192 ~]$ vi word-count-append.txt
[acadgild@192 ~]$ cat word-count-append.txt
this sample input from terminal to create text file.
[acadgild@192 ~]$ hadoop fs -appendToFile word-count-append.txt /user/acadgild/hadoop/word-count.txt
18/04/23 19:47:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@192 ~]$ hadoop fs -ls /user/acadgild/hadoop
18/04/23 19:47:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r--  1 acadgild supergroup      54 2018-04-23 19:47 /user/acadgild/hadoop/word-count.txt
[acadgild@192 ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/04/23 19:47:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
this sample input from terminal to create text file.
[acadgild@192 ~]$
```

**Task 3:** Create a file max-temp.txt in local FS, move to HDFS – here i have created file & added data to it using VI TEXTFILE NAME , CAT TEXTFILE NAME, using –movingFromLocal moved from local directory to HDFS.

I have executed required commands in sequence as proofs.



```
Acadgild Mon Apr 23, 8:01:42 PM Applications Places System
acadgild@192:~
File Edit View Search Terminal Help
[acadgild@192 ~]$ vi max-temp.txt
[acadgild@192 ~]$ cat max-temp.txt
10-01-1990,10
10-01-1992,15
10-12-1993,20
12-12-1994,22
10-01-1995,10
10-02-1996,26
10-01-1997,15
10-02-1998,22
10-01-1999,24
10-02-2000,41
10-02-2001,25
10-02-2002,18
10-02-2003,40
10-02-2004,30
10-02-2005,15

[acadgild@192 ~]$ hadoop fs -moveFromLocal max-temp.txt /user/acadgild/hadoop
18/04/23 20:00:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@192 ~]$ hadoop fs -ls /user/acadgild/hadoop/
18/04/23 20:01:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 211 2018-04-23 20:00 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 54 2018-04-23 19:47 /user/acadgild/hadoop/word-count.txt
[acadgild@192 ~]$ hadoop fs -cat /user/acadgild/hadoop/max-temp.txt
```

Acadgild Mon Apr 23, 8:01:50 PM Applications Places System

acadgild@192:~

File Edit View Search Terminal Help

```
10-01-1995,10
10-02-1996,26
10-01-1997,15
10-02-1998,22
10-01-1999,24
10-02-2000,41
10-02-2001,25
10-02-2002,18
10-02-2003,40
10-02-2004,30
10-02-2005,15

[acadgild@192 ~]$ hadoop fs -moveFromLocal max-temp.txt /user/acadgild/hadoop
18/04/23 20:00:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@192 ~]$ hadoop fs -ls /user/acadgild/hadoop/
18/04/23 20:01:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 211 2018-04-23 20:00 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 54 2018-04-23 19:47 /user/acadgild/hadoop/word-count.txt
[acadgild@192 ~]$ hadoop fs -cat /user/acadgild/hadoop/max-temp.txt
18/04/23 20:01:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-01-1992,15
10-12-1993,20
12-12-1994,22
10-01-1995,10
10-02-1996,26
10-01-1997,15
10-02-1998,22
10-01-1999,24
10-02-2000,41
10-02-2001,25
10-02-2002,18
10-02-2003,40
10-02-2004,30
10-02-2005,15

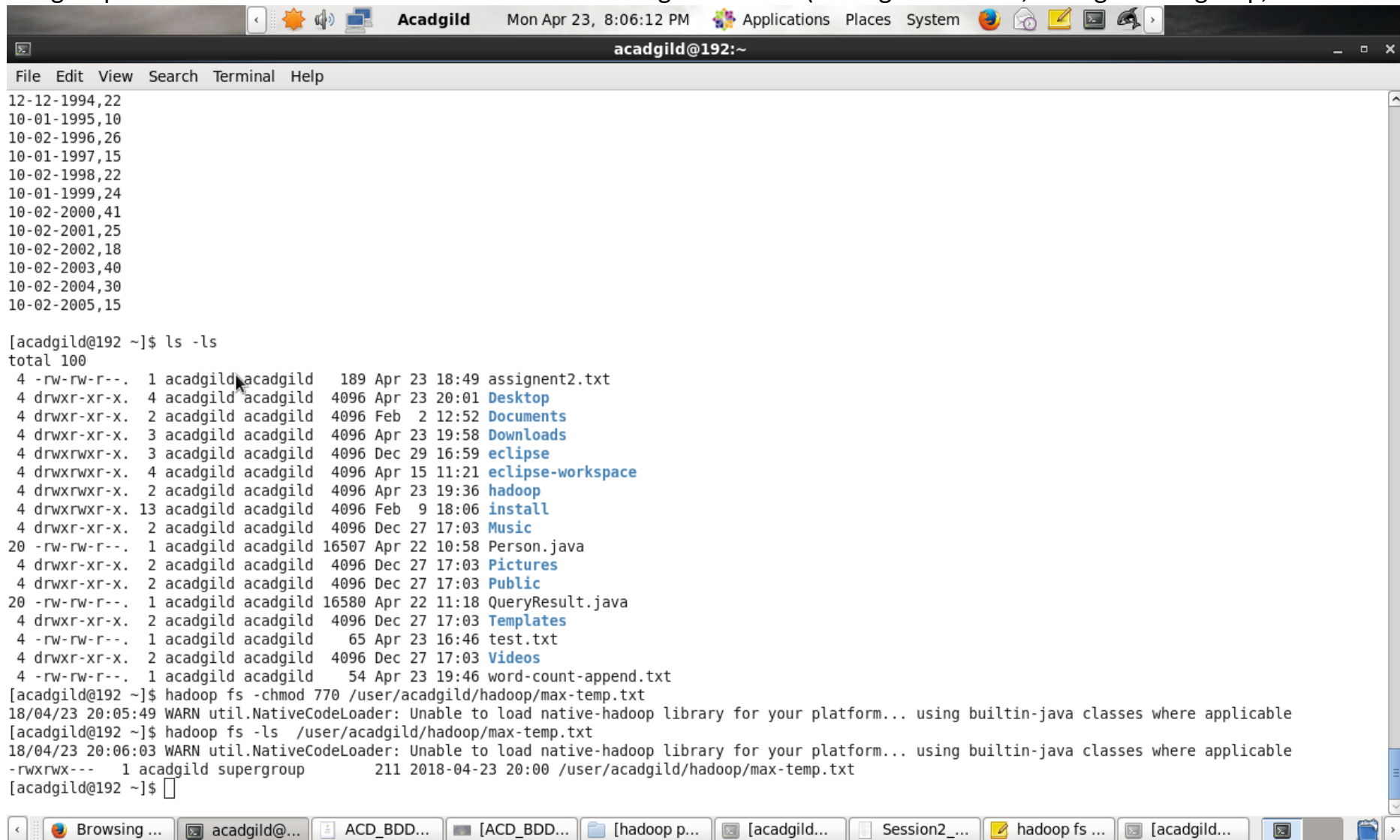
[acadgild@192 ~]$
```

Browsing ... acadgild@... ACD\_BDD... [ACD\_BDD... [hadoop p... [acadgild... Session2\_... hadoop fs ... acadgild@...

```
Acadgild Mon Apr 23, 8:02:18 PM Applications Places System
acadgild@192:~
File Edit View Search Terminal Help
[acadgild@192 ~]$ hadoop fs -cat /user/acadgild/hadoop/max-temp.txt
18/04/23 20:01:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-01-1992,15
10-12-1993,20
12-12-1994,22
10-01-1995,10
10-02-1996,26
10-01-1997,15
10-02-1998,22
10-01-1999,24
10-02-2000,41
10-02-2001,25
10-02-2002,18
10-02-2003,40
10-02-2004,30
10-02-2005,15

[acadgild@192 ~]$ ls -ls
total 100
 4 -rw-rw-r--. 1 acadgild acadgild 189 Apr 23 18:49 assignment2.txt
 4 drwxr-xr-x. 4 acadgild acadgild 4096 Apr 23 20:01 Desktop
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb  2 12:52 Documents
 4 drwxr-xr-x. 3 acadgild acadgild 4096 Apr 23 19:58 Downloads
 4 drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
 4 drwxrwxr-x. 4 acadgild acadgild 4096 Apr 15 11:21 eclipse-workspace
 4 drwxrwxr-x. 2 acadgild acadgild 4096 Apr 23 19:36 hadoop
 4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb  9 18:06 install
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
20 -rw-rw-r--. 1 acadgild acadgild 16507 Apr 22 10:58 Person.java
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
20 -rw-rw-r--. 1 acadgild acadgild 16580 Apr 22 11:18 QueryResult.java
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
 4 -rw-rw-r--. 1 acadgild acadgild  65 Apr 23 16:46 test.txt
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
 4 -rw-rw-r--. 1 acadgild acadgild  54 Apr 23 19:46 word-count-append.txt
[acadgild@192 ~]$
```

**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. -- using chmod 770( full rights for user, full rights for group, None for others )



The image shows a terminal window titled 'acadgild@192:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output includes a list of dates, a directory listing, and the execution of 'hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt'. The window has a taskbar at the bottom with several open applications.

```
12-12-1994,22
10-01-1995,10
10-02-1996,26
10-01-1997,15
10-02-1998,22
10-01-1999,24
10-02-2000,41
10-02-2001,25
10-02-2002,18
10-02-2003,40
10-02-2004,30
10-02-2005,15

[acadgild@192 ~]$ ls -ls
total 100
 4 -rw-rw-r--. 1 acadgild acadgild 189 Apr 23 18:49 assignment2.txt
 4 drwxr-xr-x. 4 acadgild acadgild 4096 Apr 23 20:01 Desktop
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb  2 12:52 Documents
 4 drwxr-xr-x. 3 acadgild acadgild 4096 Apr 23 19:58 Downloads
 4 drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
 4 drwxrwxr-x. 4 acadgild acadgild 4096 Apr 15 11:21 eclipse-workspace
 4 drwxrwxr-x. 2 acadgild acadgild 4096 Apr 23 19:36 hadoop
 4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb  9 18:06 install
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
20 -rw-rw-r--. 1 acadgild acadgild 16507 Apr 22 10:58 Person.java
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
20 -rw-rw-r--. 1 acadgild acadgild 16580 Apr 22 11:18 QueryResult.java
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
 4 -rw-rw-r--. 1 acadgild acadgild  65 Apr 23 16:46 test.txt
 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
 4 -rw-rw-r--. 1 acadgild acadgild  54 Apr 23 19:46 word-count-append.txt
[acadgild@192 ~]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/04/23 20:05:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@192 ~]$ hadoop fs -ls /user/acadgild/hadoop/max-temp.txt
18/04/23 20:06:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
-rwxrwx--- 1 acadgild supergroup      211 2018-04-23 20:00 /user/acadgild/hadoop/max-temp.txt
[acadgild@192 ~]$
```

