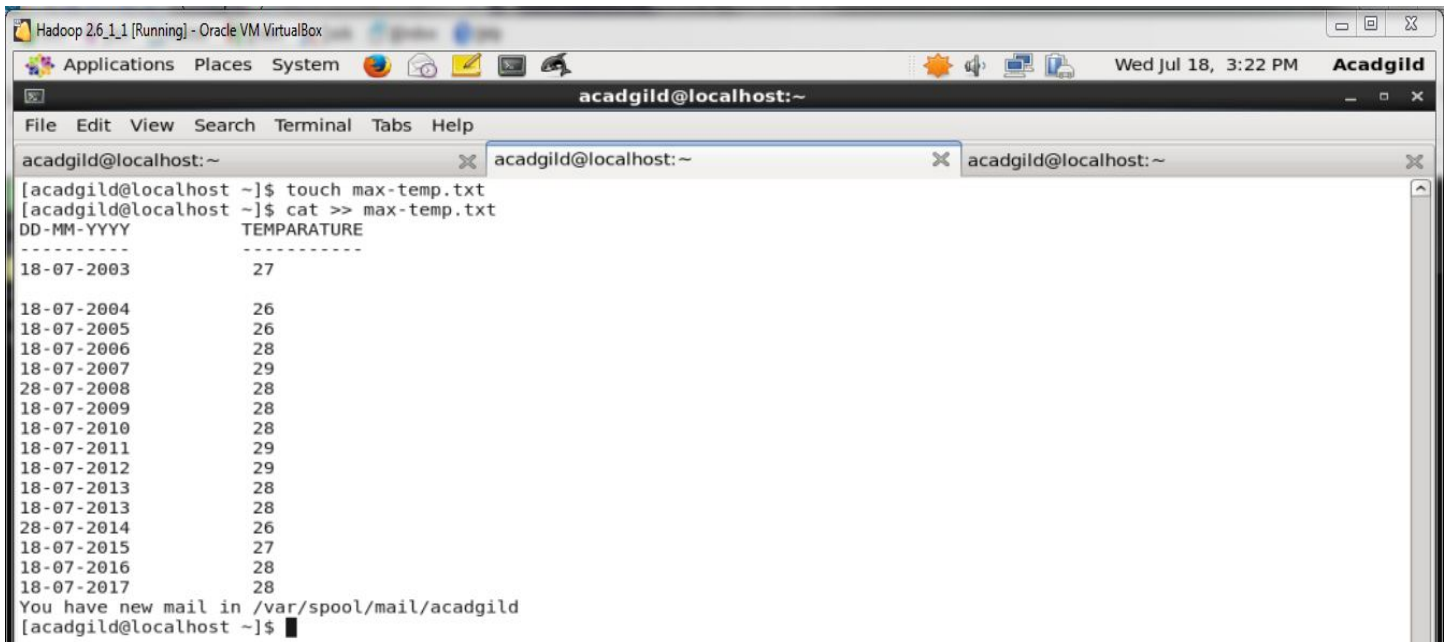


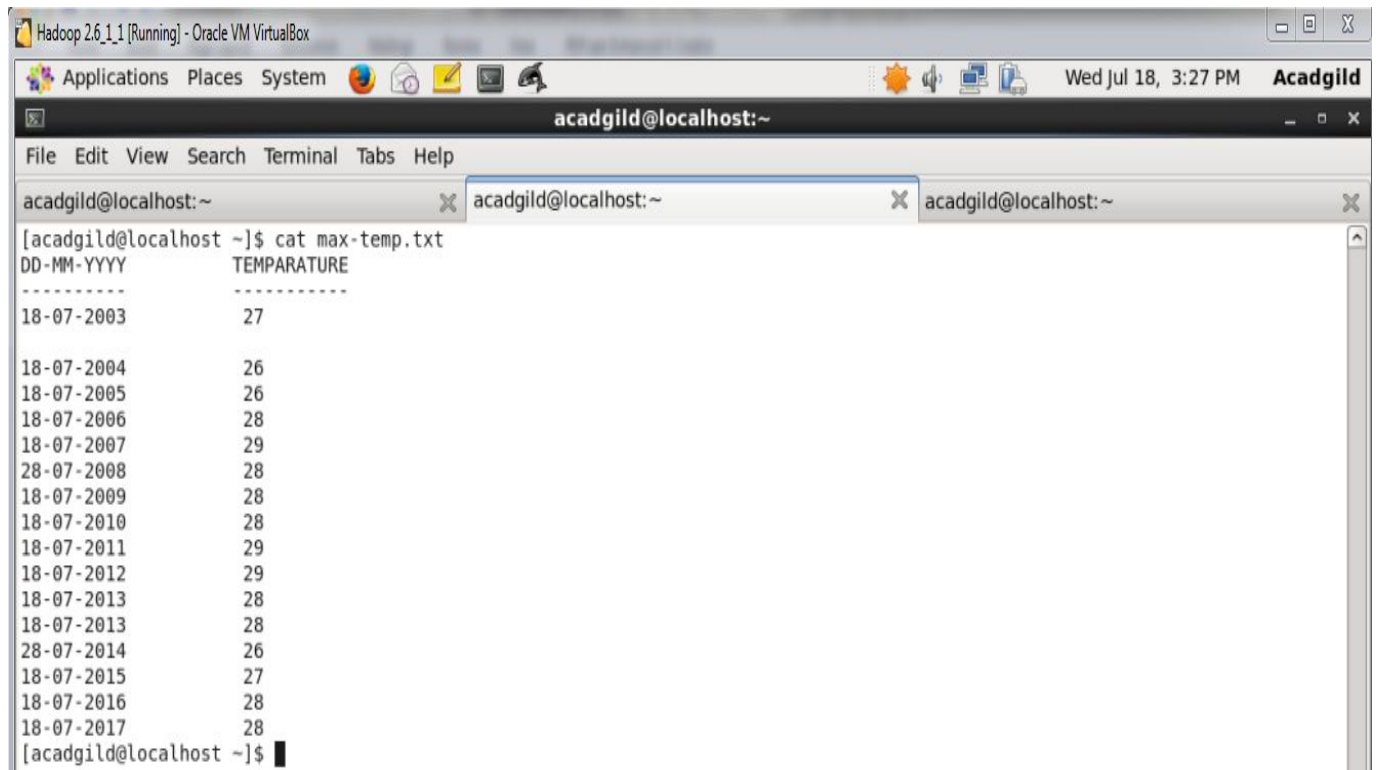
Task 3: Creating the file max-temp.txt in local FS, and entering some temperature records. In to that.



The screenshot shows a terminal window with the following commands and output:

```
[acadgild@localhost ~]$ touch max-temp.txt
[acadgild@localhost ~]$ cat >> max-temp.txt
DD-MM-YYYY      TEMPARATURE
-----
18-07-2003      27
18-07-2004      26
18-07-2005      26
18-07-2006      28
18-07-2007      29
28-07-2008      28
18-07-2009      28
18-07-2010      28
18-07-2011      29
18-07-2012      29
18-07-2013      28
18-07-2013      28
28-07-2014      26
18-07-2015      27
18-07-2016      28
18-07-2017      28
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

1. As shown in the above picture, a file can be created using the command *touch*:
Ex: *\$touch max-temp.txt*
2. You can enter the data into the file *max-temp.txt* using *cat* command:
Ex: *cat >> max-temp.txt*
3. Once all the records are entered, press ctrl+d to save and exit from the file.
4. You can see the contents of the file using the *cat* command:

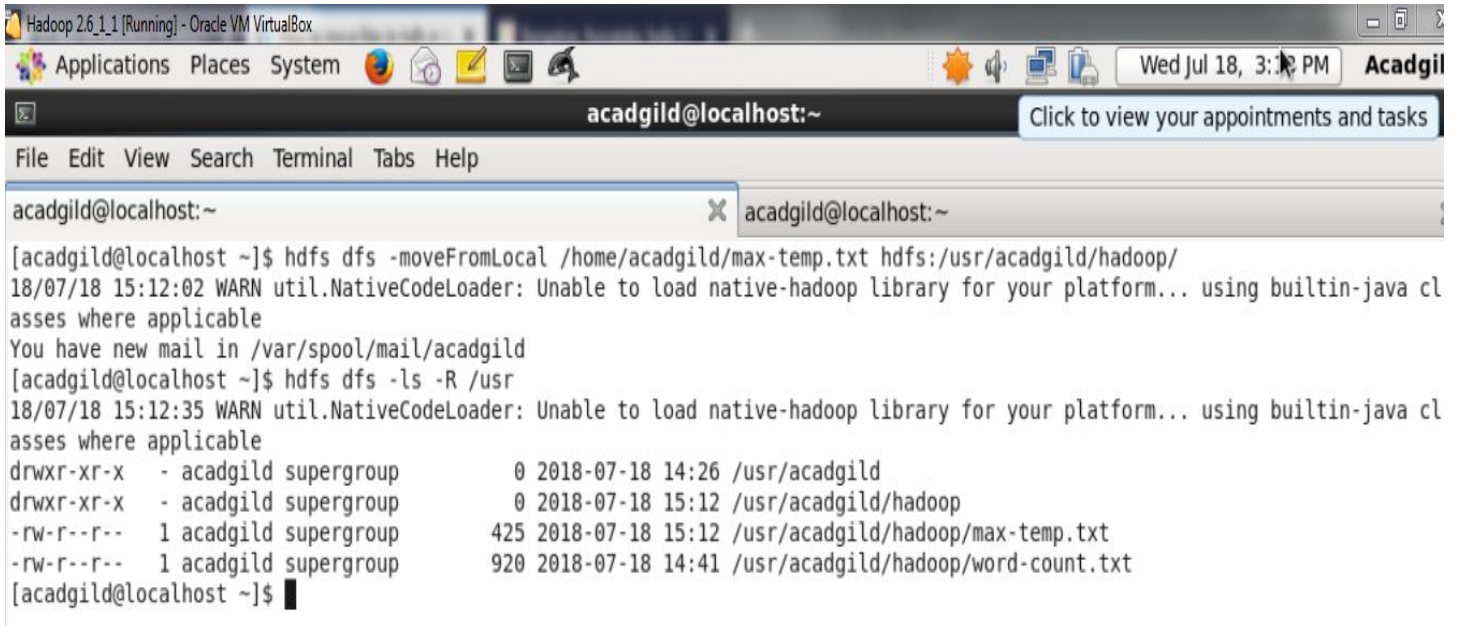


The screenshot shows a terminal window with the following command and output:

```
[acadgild@localhost ~]$ cat max-temp.txt
DD-MM-YYYY      TEMPARATURE
-----
18-07-2003      27
18-07-2004      26
18-07-2005      26
18-07-2006      28
18-07-2007      29
28-07-2008      28
18-07-2009      28
18-07-2010      28
18-07-2011      29
18-07-2012      29
18-07-2013      28
18-07-2013      28
28-07-2014      26
18-07-2015      27
18-07-2016      28
18-07-2017      28
[acadgild@localhost ~]$
```

5. Now you can move the *max-temp.txt* from local file to hdfs file system using ***–moveFromLocal*** option:

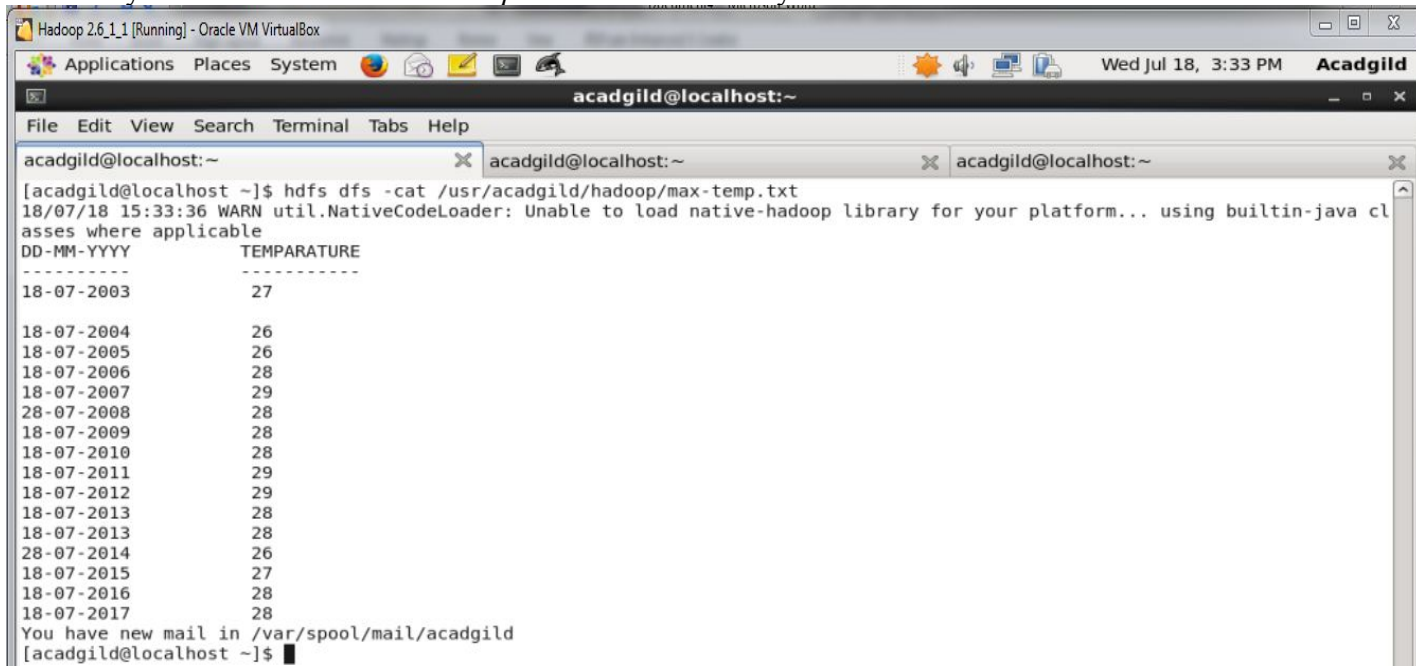
Ex: ***\$hdfs dfs –moveFromLocal /home/acadgild/max-temp.txt hdfs:/usr/acadgild/hadoop/***



A terminal window titled 'Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox' with a top bar showing 'Applications Places System' and a clock at 'Wed Jul 18, 3:13 PM'. The terminal prompt is 'acadgild@localhost:~'. The user enters the command 'hdfs dfs -moveFromLocal /home/acadgild/max-temp.txt hdfs:/usr/acadgild/hadoop/'. The output shows a warning from 'util.NativeCodeLoader' and a message about new mail. The user then enters 'hdfs dfs -ls -R /usr', which lists the contents of the HDFS directory, including the moved file 'max-temp.txt'.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ hdfs dfs -moveFromLocal /home/acadgild/max-temp.txt hdfs:/usr/acadgild/hadoop/  
18/07/18 15:12:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hdfs dfs -ls -R /usr  
18/07/18 15:12:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
drwxr-xr-x - acadgild supergroup 0 2018-07-18 14:26 /usr/acadgild  
drwxr-xr-x - acadgild supergroup 0 2018-07-18 15:12 /usr/acadgild/hadoop  
-rw-r--r-- 1 acadgild supergroup 425 2018-07-18 15:12 /usr/acadgild/hadoop/max-temp.txt  
-rw-r--r-- 1 acadgild supergroup 920 2018-07-18 14:41 /usr/acadgild/hadoop/word-count.txt  
[acadgild@localhost ~]$
```

6. And verify the contents of the *max-temp.txt* file in hdfs file system:



A terminal window titled 'Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox' with a top bar showing 'Applications Places System' and a clock at 'Wed Jul 18, 3:33 PM'. The terminal prompt is 'acadgild@localhost:~'. The user enters the command 'hdfs dfs -cat /usr/acadgild/hadoop/max-temp.txt'. The output shows the same warning and mail message as before, followed by the contents of the file, which is a table of dates and temperatures.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ hdfs dfs -cat /usr/acadgild/hadoop/max-temp.txt  
18/07/18 15:33:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
DD-MM-YYYY      TEMPARATURE  
-----  
18-07-2003      27  
  
18-07-2004      26  
18-07-2005      26  
18-07-2006      28  
18-07-2007      29  
28-07-2008      28  
18-07-2009      28  
18-07-2010      28  
18-07-2011      29  
18-07-2012      29  
18-07-2013      28  
18-07-2013      28  
28-07-2014      26  
18-07-2015      27  
18-07-2016      28  
18-07-2017      28  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

7. The contents of the hdfs file can be extracted with ***–cat*** option:

Ex: ***\$hdfs dfs –cat /usr/acadgild/hadoop/max-temp.txt***