### Task 1:

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

Directory not present

```
[acadgild@localhost ~]$ hadoop fs -mkdir /user
18/08/04 12:11:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes wh
applicable
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild
18/08/04 12:11:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes wh
applicable
^[[A^[[A] [acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/08/04 12:12:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes wh
applicable
[acadgild@localhost ~]$ hadoop fs -ls /
18/08/04 12:12:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes wh
applicable
Found 9 items
-rw-r--r- 1 acadgild supergroup 1056906185 2018-07-24 00:45 /file11.txt
-rw-r--r-- 1 acadgild supergroup 268435456 2018-07-24 00:45 /file11.txt
-rw-r--r-- 1 acadgild supergroup 0 2018-07-23 19:37 /hadoopdata
drwxr-xr-x - acadgild supergroup 0 2018-07-21 14:34 /output
-rw-r--r-- 1 acadgild supergroup 0 2018-07-21 14:34 /output
-rw-r--r-- 1 acadgild supergroup 10 2018-07-21 11:12 /test.txt
-rw-r--r-- 1 acadgild supergroup 10 2018-07-23 10:20 /test2.txt
drwx-wx-wx - acadgild supergroup 0 2018-05-16 13:42 /tmp
drwxr-xr-x - acadgild supergroup 0 2018-05-16 13:42 /tmp
drwxr-xr-x - acadgild supergroup 0 2018-08-04 12:11 /user
```

### Task 2:

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

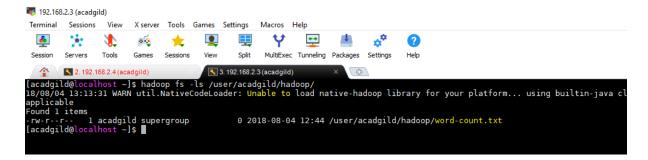
Whatever we type on screen should get appended to the file.

Try to type (on screen) few lines from any online article or textbook.

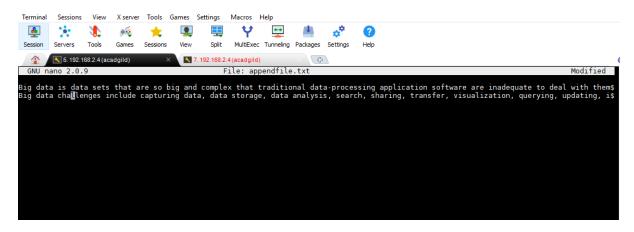
Solution

Create a 0 bytes word-count.txt file using touchz command

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/08/04 12:44:17 WARN util.NativeCodeLoader: <mark>Unable to</mark> load native-hadoop library for your platform... using builtin-java classes where
applicable
```



Use nano command to type (on screen) few lines from any online article or textbook.



```
[acadgild@localhost ~]$ cat appendfile.txt
Big data is data sets that are so big and complex that traditional data-processing application software are inadequate to deal with them.
Big data challenges include capturing data, data storage, data analysis, search, sharing, transfer, visualization, querying, updating, in
formation privacy and data source
[acadgild@localhost ~]$ ■
```

Use appendToFile command to append the contents from the above file to word-count.txt

```
| S. 192.168.2.4(acadgild) | X | T. 192.168.2.4(acadgild) | T. 192.168.2.4(
```

### Task 3:

Create a file max-temp.txt in local FS.

Put some 10-15 records of date and temperature example:

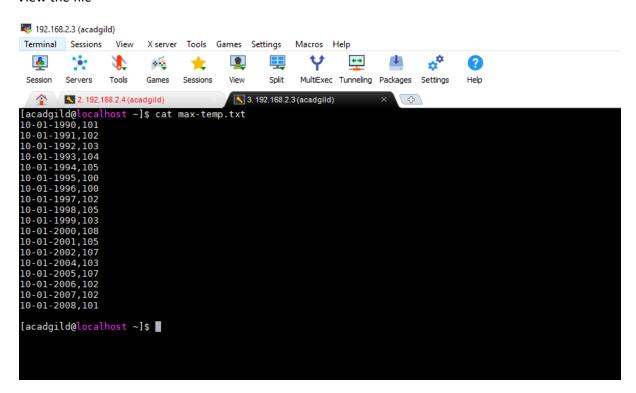
dd-mm-yyyy,temperature

# Command – nano max-temp.txt

```
GNU nano 2.0.9 File: max-temp.txt Modified

10-01-1990,101
10-01-1992,103
10-01-1992,103
10-01-1993,104
10-01-1995,100
10-01-1995,100
10-01-1995,100
10-01-1998,105
10-01-1998,105
10-01-1998,105
10-01-2000,108
10-01-2000,108
10-01-2000,108
10-01-2000,108
10-01-2005,107
10-01-2005,107
10-01-2006,102
10-01-2008,101
```

## View the file



# Putting the file in HDFS

Viewing the file

```
[acadgild@localhost ~]$ hadoop fs ·ls /user/acadgild/hadoop/
18/08/04 13:57:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--- 1 acadgild supergroup 271 2018-08-04 13:56 /user/acadgild/hadoop/max-temp.txt
-rw-r--- 1 acadgild supergroup 0 2018-08-04 12:44 /user/acadgild/hadoop/max-temp.txt
18/08/04 13:57:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable 10-01-1990,101
10-01-1990,102
10-01-1991,102
10-01-1994,105
10-01-1994,105
10-01-1998,106
10-01-1998,105
10-01-1999,103
10-01-2000,108
10-01-2000,108
10-01-2000,108
10-01-2000,107
10-01-2000,107
10-01-2000,107
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10-01-2000,107
10-01-2000,107
10-01-2000,107
10-01-2000,107
10-01-2000,107
10-01-2000,107
10-01-2000,107
10-01-2000,107
```

### 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.

```
[acadgild@localhost ~]$ hadoop fs -getfacl -R /user/acadgild/hadoop/max-temp.txt
18/08/04 14:22:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where
applicable
# file: /user/acadgild/hadoop/max-temp.txt
# owner: acadgild
# group: supergroup
user::rw-
group::r--
other::r--
```

Numeric Values for

Read = 4

Write = 2

Execute = 1

Hence we give 770 execute permission for owner, group and others

```
7 192.168.2.3 (acadgild)
                                 X server Tools Games Settings
                                                                             Macros Help
                                                          Y
                                                                                            **
                        0.00
           Servers
                        Tools
                                  Games Sessions
                                                          View
                                                                      Split
                                                                               MultiExec Tunneling Packages Settings
 acadgild@localhost -]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
.8/08/04 14:51:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where
 pplicable
acadgild@localhost ~]$ hadoop fs -getfacl -R /user/acadgild/hadoop/max-temp.txt
8/08/04 14:51:49 WARN util.NativeCodeLoader: <mark>Unable to</mark> load native-hadoop library for your platform... using builtin-java classes where
 8/08/04 14:51:49 WARN util.NativeCodeLoade
pfile: /user/acadgild/hadoop/max-temp.txt
owner: acadgild
group: supergroup
ser::rwx
 roup::rwx
ther::---
[acadgild@localhost ~]$ 🛮
```