

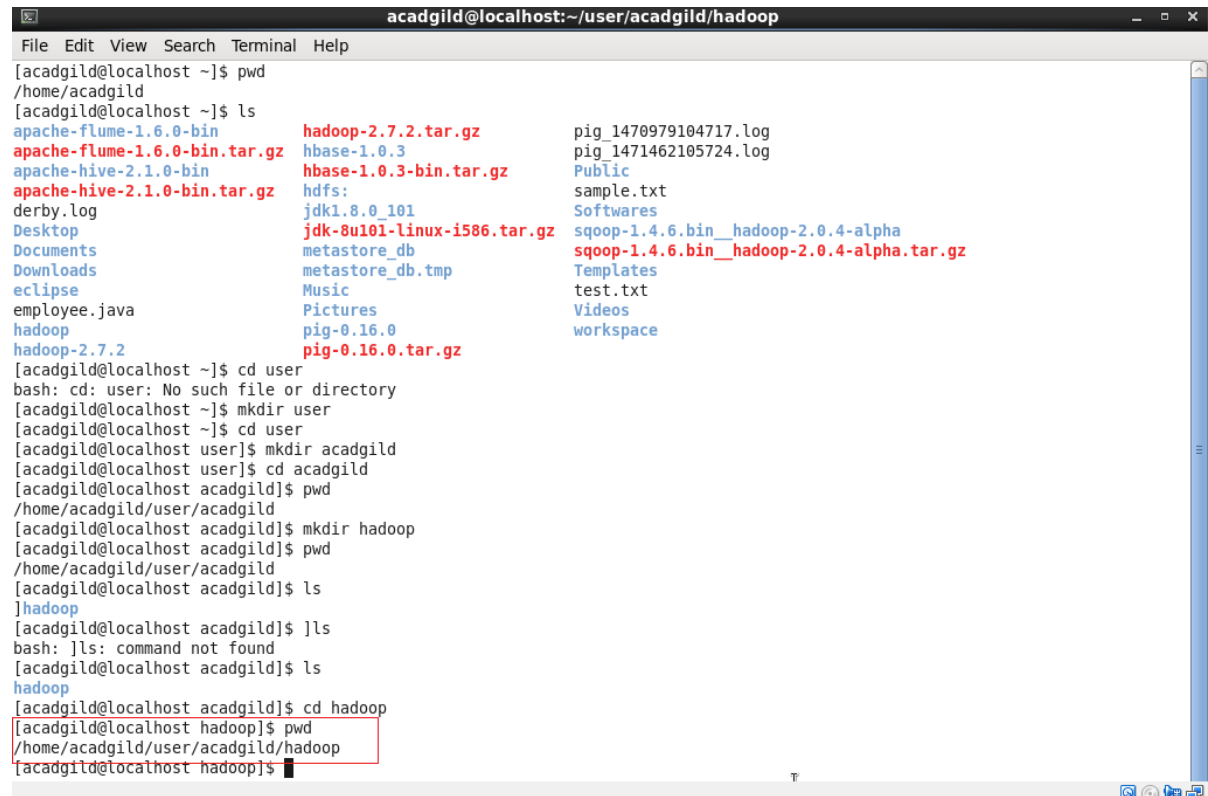
Task 1:

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.

Cmd – **mkdir** to create a new folder.

A terminal window titled 'acadgild@localhost:~/user/acadgild/hadoop' showing a series of commands and their outputs. The user starts in the home directory, lists files, and then attempts to create a 'user' directory. After a failed attempt due to an existing file, they successfully create the 'user' directory, then the 'acadgild' subdirectory, and finally the 'hadoop' subdirectory. The final command 'cd hadoop' is highlighted with a red box.

```
acadgild@localhost:~/user/acadgild/hadoop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
apache-flume-1.6.0-bin      hadoop-2.7.2.tar.gz      pig_1470979104717.log
apache-flume-1.6.0-bin.tar.gz  hbase-1.0.3             pig_1471462105724.log
apache-hive-2.1.0-bin      hbase-1.0.3-bin.tar.gz  Public
apache-hive-2.1.0-bin.tar.gz  hdfs:                   sample.txt
derby.log                  jdk1.8.0_101           Softwares
Desktop                    jdk-8u101-linux-i586.tar.gz  sqoop-1.4.6.bin__hadoop-2.0.4-alpha
Downloads                  metastore_db            sqoop-1.4.6.bin__hadoop-2.0.4-alpha.tar.gz
eclipse                   metastore_db.tmp        Templates
employee.java             Music                   test.txt
hadoop                    pig-0.16.0             Videos
hadoop-2.7.2              pig-0.16.0.tar.gz      workspace

[acadgild@localhost ~]$ cd user
bash: cd: user: No such file or directory
[acadgild@localhost ~]$ mkdir user
[acadgild@localhost ~]$ cd user
[acadgild@localhost user]$ mkdir acadgild
[acadgild@localhost user]$ cd acadgild
[acadgild@localhost acadgild]$ pwd
/home/acadgild/user/acadgild
[acadgild@localhost acadgild]$ mkdir hadoop
[acadgild@localhost acadgild]$ pwd
/home/acadgild/user/acadgild
[acadgild@localhost acadgild]$ ls
]hadoop
[acadgild@localhost acadgild]$ ll
bash: ll: command not found
[acadgild@localhost acadgild]$ ls
hadoop
[acadgild@localhost acadgild]$ cd hadoop
[acadgild@localhost hadoop]$ pwd
/home/acadgild/user/acadgild/hadoop
[acadgild@localhost hadoop]$
```

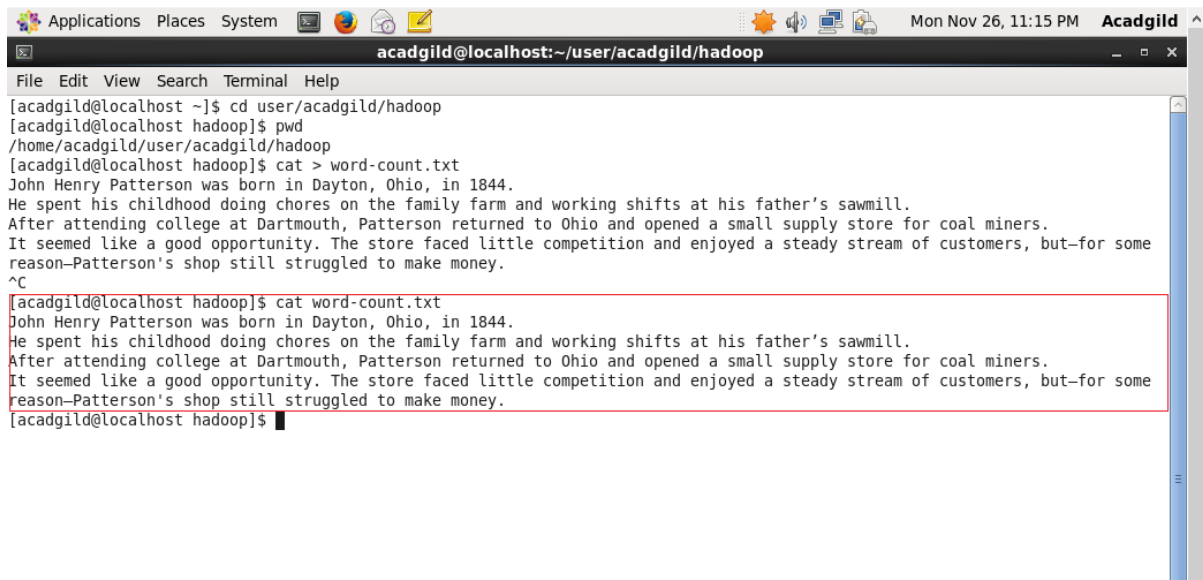
Task 2:

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.

Cmd – **cat** to create new .txt file



The screenshot shows a terminal window titled "acadgild@localhost:~/user/acadgild/hadoop". The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal output is as follows:

```
[acadgild@localhost ~]$ cd user/acadgild/hadoop
[acadgild@localhost hadoop]$ pwd
/home/acadgild/user/acadgild/hadoop
[acadgild@localhost hadoop]$ cat > word-count.txt
John Henry Patterson was born in Dayton, Ohio, in 1844.
He spent his childhood doing chores on the family farm and working shifts at his father's sawmill.
After attending college at Dartmouth, Patterson returned to Ohio and opened a small supply store for coal miners.
It seemed like a good opportunity. The store faced little competition and enjoyed a steady stream of customers, but—for some
reason—Patterson's shop still struggled to make money.
^C
[acadgild@localhost hadoop]$ cat word-count.txt
John Henry Patterson was born in Dayton, Ohio, in 1844.
He spent his childhood doing chores on the family farm and working shifts at his father's sawmill.
After attending college at Dartmouth, Patterson returned to Ohio and opened a small supply store for coal miners.
It seemed like a good opportunity. The store faced little competition and enjoyed a steady stream of customers, but—for some
reason—Patterson's shop still struggled to make money.
[acadgild@localhost hadoop]$
```

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

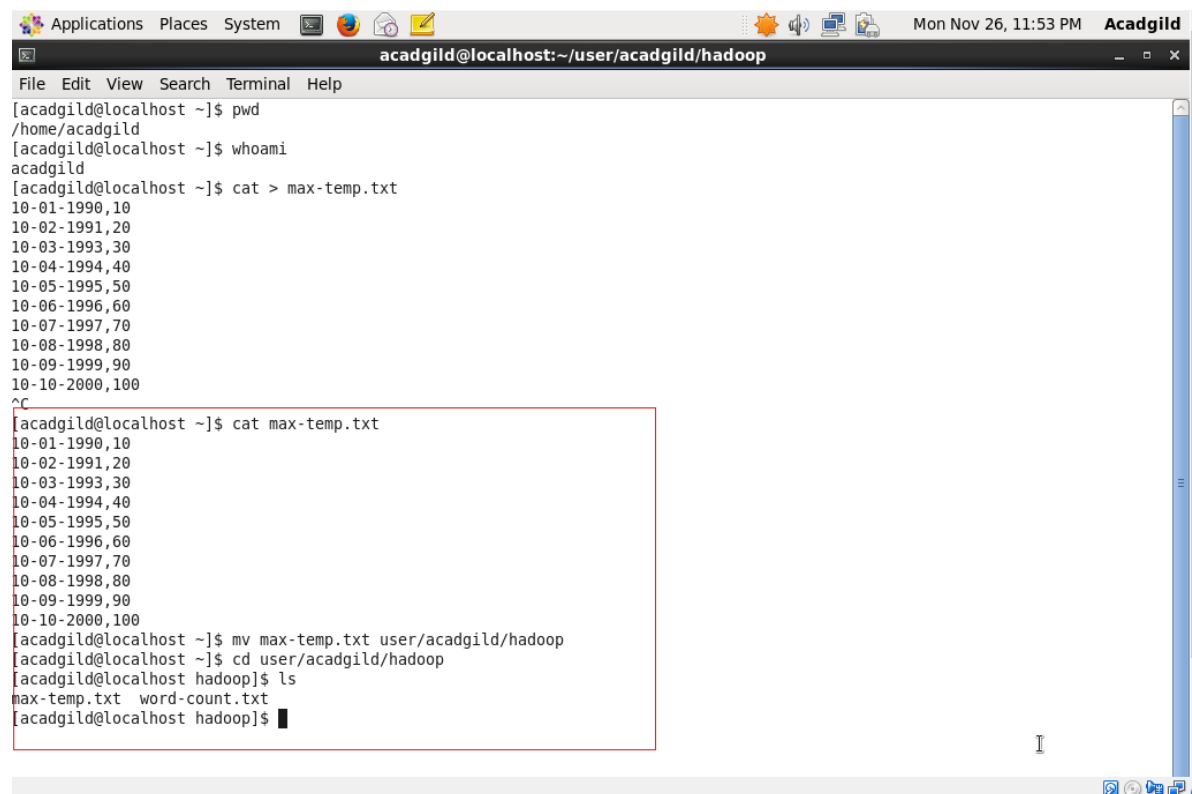
Example:

10-01-1990,10

10-02-1991,20

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

Cmd – **mv** to move the file to another folder.

A screenshot of a Linux terminal window. The window title is 'acadgild@localhost: ~/user/acadgild/hadoop'. The terminal shows the following commands and output:

```
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ whoami
acadgild
[acadgild@localhost ~]$ cat > max-temp.txt
10-01-1990,10
10-02-1991,20
10-03-1993,30
10-04-1994,40
10-05-1995,50
10-06-1996,60
10-07-1997,70
10-08-1998,80
10-09-1999,90
10-10-2000,100
^C
[acadgild@localhost ~]$ cat max-temp.txt
10-01-1990,10
10-02-1991,20
10-03-1993,30
10-04-1994,40
10-05-1995,50
10-06-1996,60
10-07-1997,70
10-08-1998,80
10-09-1999,90
10-10-2000,100
[acadgild@localhost ~]$ mv max-temp.txt user/acadgild/hadoop
[acadgild@localhost ~]$ cd user/acadgild/hadoop
[acadgild@localhost hadoop]$ ls
max-temp.txt word-count.txt
[acadgild@localhost hadoop]$
```

The terminal window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The top status bar shows 'Mon Nov 26, 11:53 PM' and 'Acadgild'. The bottom status bar shows system icons.

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.
Others do not have any control over it.

Cmd – **chmod** options permissions file name to change the file permission.

```
10-02-1991,20
10-03-1993,30
10-04-1994,40
10-05-1995,50
10-06-1996,60
10-07-1997,70
10-08-1998,80
10-09-1999,90
10-10-2000,100
^C
[acadgild@localhost ~]$ cat max-temp.txt
10-01-1990,10
10-02-1991,20
10-03-1993,30
10-04-1994,40
10-05-1995,50
10-06-1996,60
10-07-1997,70
10-08-1998,80
10-09-1999,90
10-10-2000,100
[acadgild@localhost ~]$ mv max-temp.txt user/acadgild/hadoop
[acadgild@localhost ~]$ cd user/acadgild/hadoop
[acadgild@localhost hadoop]$ ls
max-temp.txt  word-count.txt
[acadgild@localhost hadoop]$ chmod 0660 /user/acadgild/hadoop/max-temp.txt
chmod: cannot access '/user/acadgild/hadoop/max-temp.txt': No such file or directory
[acadgild@localhost hadoop]$ chmod 0660 user/acadgild/hadoop/max-temp.txt
chmod: cannot access 'user/acadgild/hadoop/max-temp.txt': No such file or directory
[acadgild@localhost hadoop]$ pwd
/home/acadgild/user/acadgild/hadoop
[acadgild@localhost hadoop]$ chmod 0660 max-temp.txt
[acadgild@localhost hadoop]$ ls -l
total 8
-rw-rw----. 1 acadgild acadgild 141 Nov 26 23:52 max-temp.txt
-rw-rw----. 1 acadgild acadgild 455 Nov 26 23:14 word-count.txt
[acadgild@localhost hadoop]$
```