

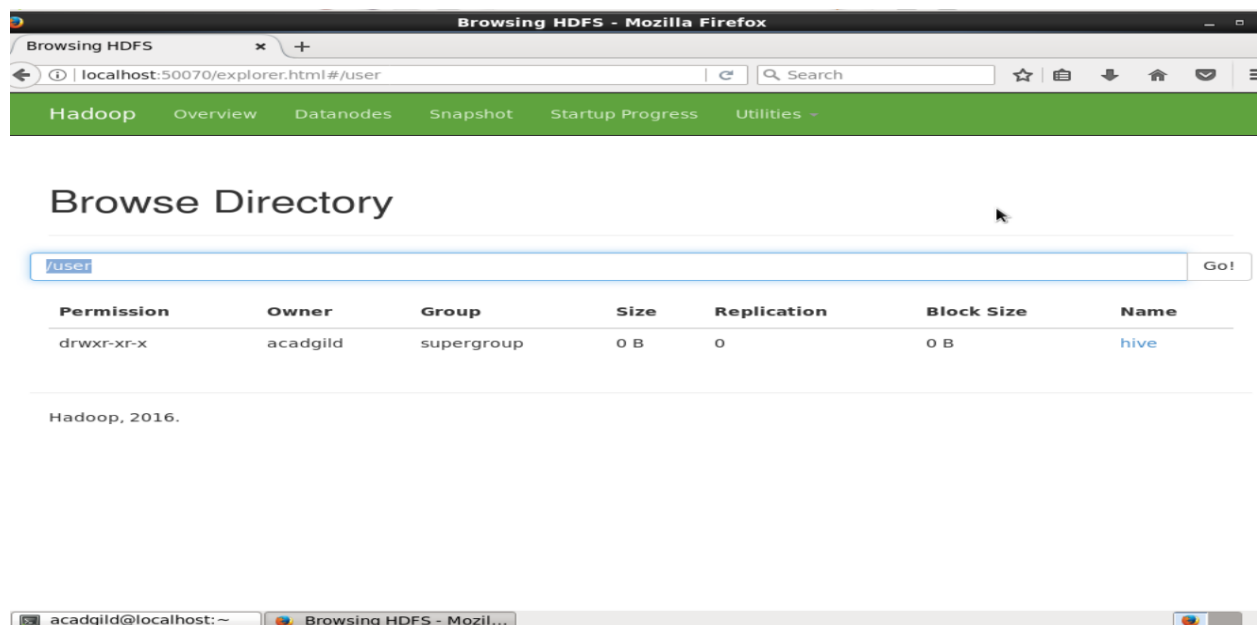
## Assignment No-2

### Question-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.

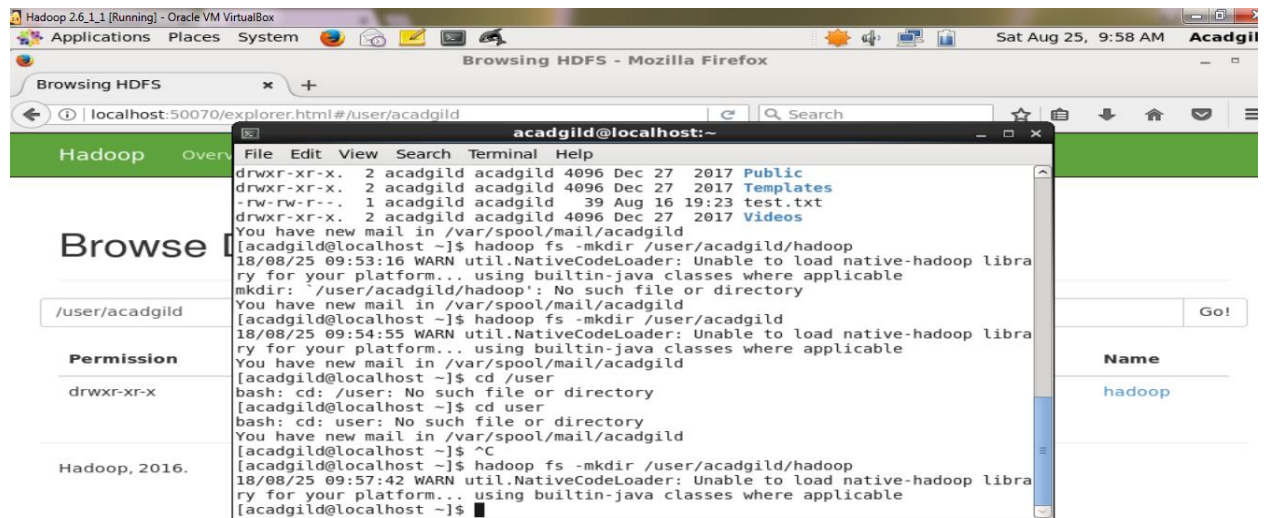
**Answer :**

Check whether /user/acadgild directory exists or not in the HDFS.  
Not Present.

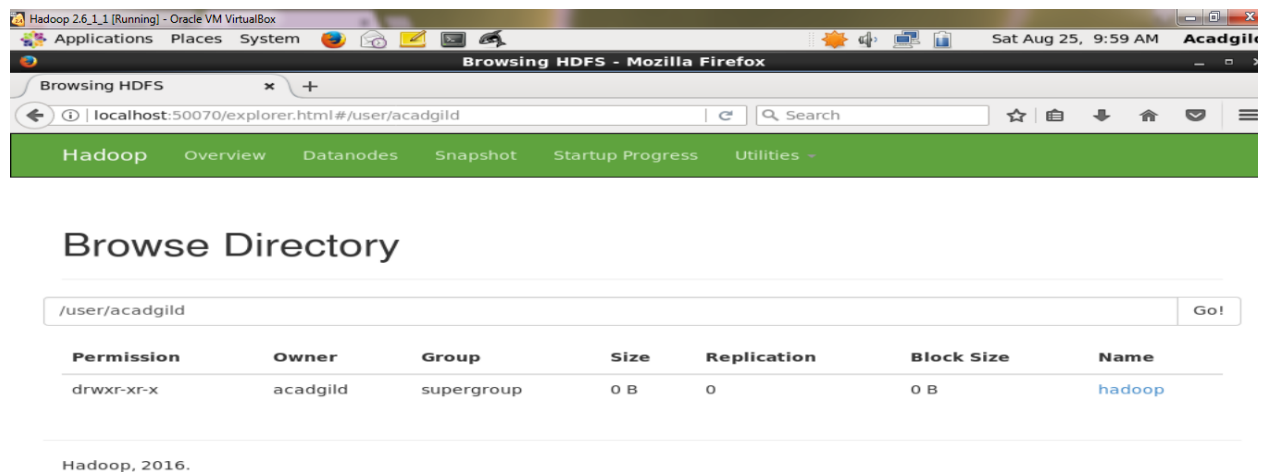


Create a directory /user/acadgild/hadoop.

Command : `$ hadoop fs -mkdir /user/acadgild/hadoop`



Directory Created :



## Question-2

Create a file in HDFS under directory /user/acadgild/hadoop, with name abc.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.

**Answer :**

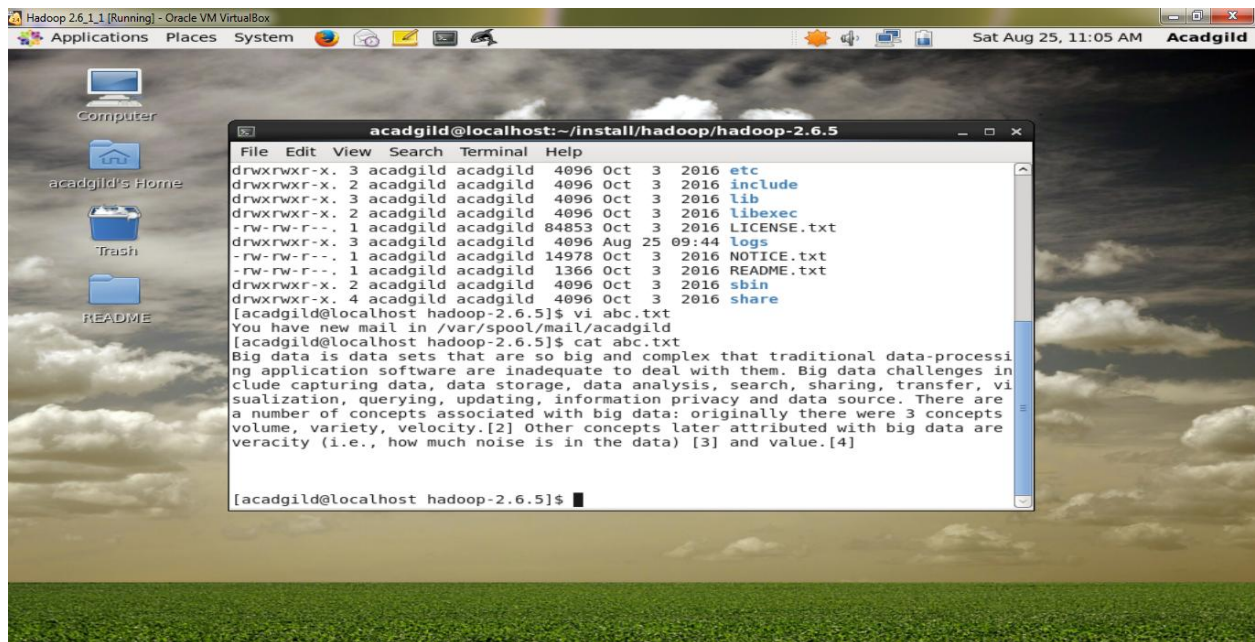
Create a file in HDFS under directory /user/acadgild/hadoop, with name abc.txt.

Command :

```
$ cd $HADOOP_HOME
```

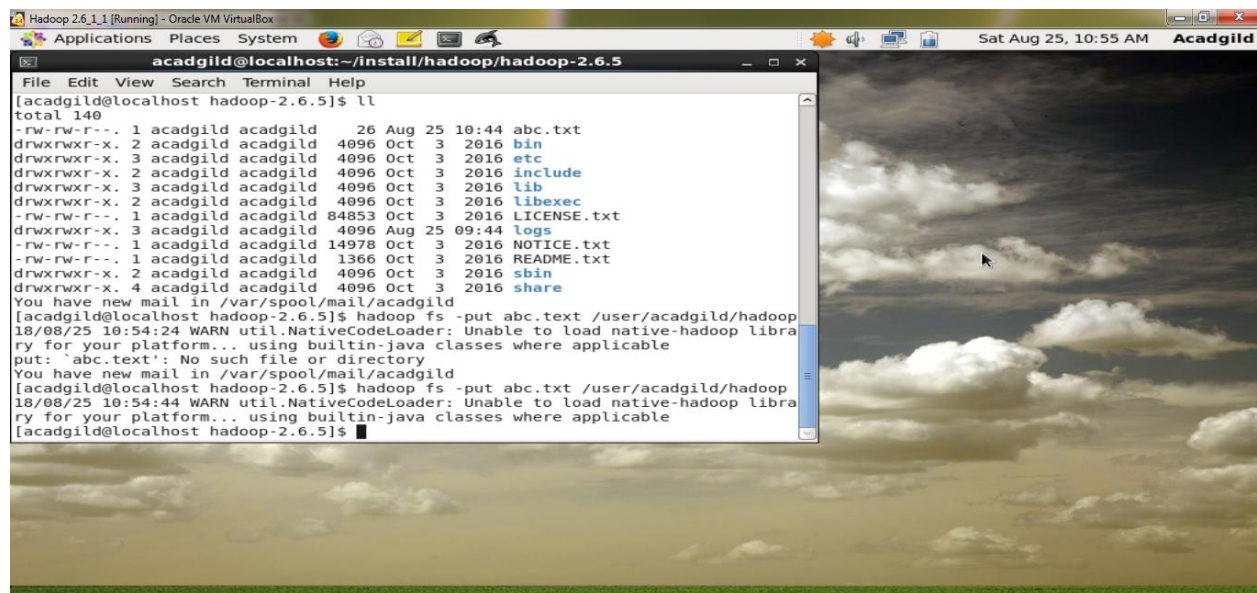
```
$ vi abc.txt
```

```
$ cat abc.txt
```

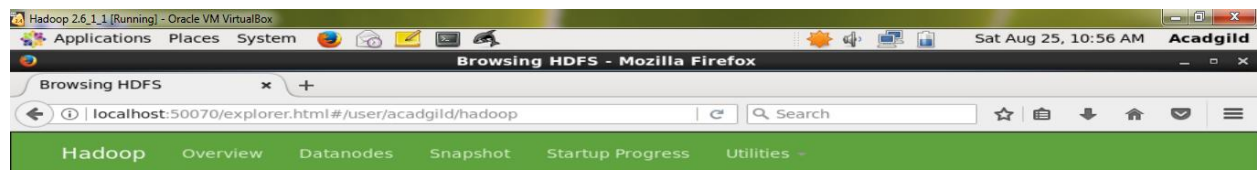


Command to copy from localFS TO HDFS :

\$ `hadoop fs -put abc.txt /user/acadgild/hadoop`



```
acadmild@localhost:~/install/hadoop/hadoop-2.6.5
File Edit View Search Terminal Help
[acadmild@localhost hadoop-2.6.5]$ ll
total 140
-rw-rw-r--. 1 acadmild acadmild 26 Aug 25 10:44 abc.txt
drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 bin
drwxrwxr-x. 3 acadmild acadmild 4096 Oct 3 2016 etc
drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 include
drwxrwxr-x. 3 acadmild acadmild 4096 Oct 3 2016 lib
drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 libexec
-rw-rw-r--. 1 acadmild acadmild 84853 Oct 3 2016 LICENSE.txt
drwxrwxr-x. 3 acadmild acadmild 4096 Aug 25 09:44 logs
-rw-rw-r--. 1 acadmild acadmild 14978 Oct 3 2016 NOTICE.txt
-rw-rw-r--. 1 acadmild acadmild 1366 Oct 3 2016 README.txt
drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 sbin
drwxrwxr-x. 4 acadmild acadmild 4096 Oct 3 2016 share
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost hadoop-2.6.5]$ hadoop fs -put abc.txt /user/acadmild/hadoop
18/08/25 10:54:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
put: 'abc.txt': No such file or directory
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost hadoop-2.6.5]$ hadoop fs -put abc.txt /user/acadmild/hadoop
18/08/25 10:54:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadmild@localhost hadoop-2.6.5]$
```



## Browse Directory

/user/acadmild/hadoop							Go!
Permission	Owner	Group	Size	Replication	Block Size	Name	
-rw-r--r--	acadmild	supergroup	26 B	1	128 MB	<a href="#">abc.txt</a>	

Hadoop, 2016.

### 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.

**Answer :**

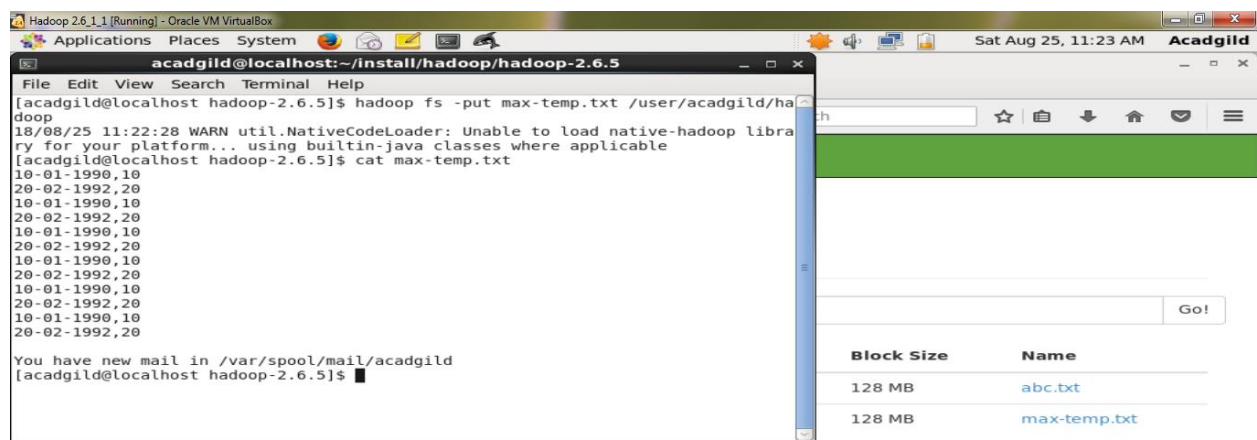
Create a file max-temp.txt in local FS.

Command :

\$ cd \$HADOOP\_HOME

\$ vi max-temp.txt

\$ cat max-temp.txt



The screenshot shows a terminal window titled 'acadgild@localhost:~/install/hadoop/hadoop-2.6.5'. The terminal output shows the command 'hadoop fs -put max-temp.txt /user/acadgild/hadoop' being executed, followed by a warning message about the native Hadoop library. Then, the command 'cat max-temp.txt' is executed, displaying 15 lines of date and temperature data. To the right, a file browser window titled 'Acadgild' shows the contents of the HDFS directory '/user/acadgild/hadoop'. It lists two files: 'abc.txt' and 'max-temp.txt', both with a block size of 128 MB.

```
File Edit View Search Terminal Help
[acadgild@localhost hadoop-2.6.5]$ hadoop fs -put max-temp.txt /user/acadgild/hadoop
18/08/25 11:22:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost hadoop-2.6.5]$ cat max-temp.txt
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
10-01-1990,10
20-02-1992,20
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop-2.6.5]$
```

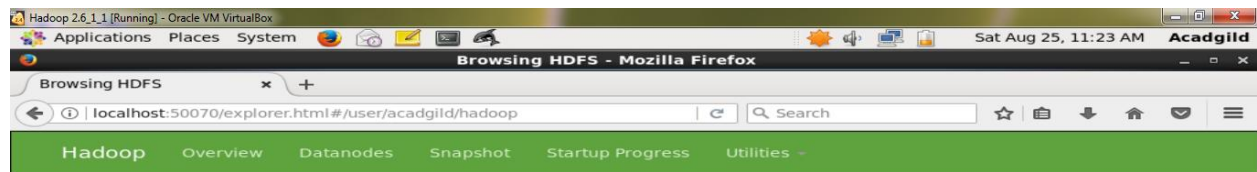
Block Size	Name
128 MB	<a href="#">abc.txt</a>
128 MB	<a href="#">max-temp.txt</a>

Hadoop, 2016.

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

Command :

\$ hadoop fs -put max-temp.txt /user/acadgild/hadoop



## Browse Directory

/user/acadgild/hadoop

Go!

Permission	Owner	Group	Size	Replication	Block Size	Name
-rw-r--r--	acadgild	supergroup	548 B	1	128 MB	<a href="#">abc.txt</a>
-rw-r--r--	acadgild	supergroup	169 B	1	128 MB	<a href="#">max-temp.txt</a>

Hadoop, 2016.

#### 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 :**

Change the permission of the file /user/acadgild/hadoop/max-temp.txt

Command :

```
$ hadoop fs chmod -R 755 /user/acadgild/hadoop
```

