ASSIGNMENT 2.1

TASK1: **To create a directory under /user/acadgild**
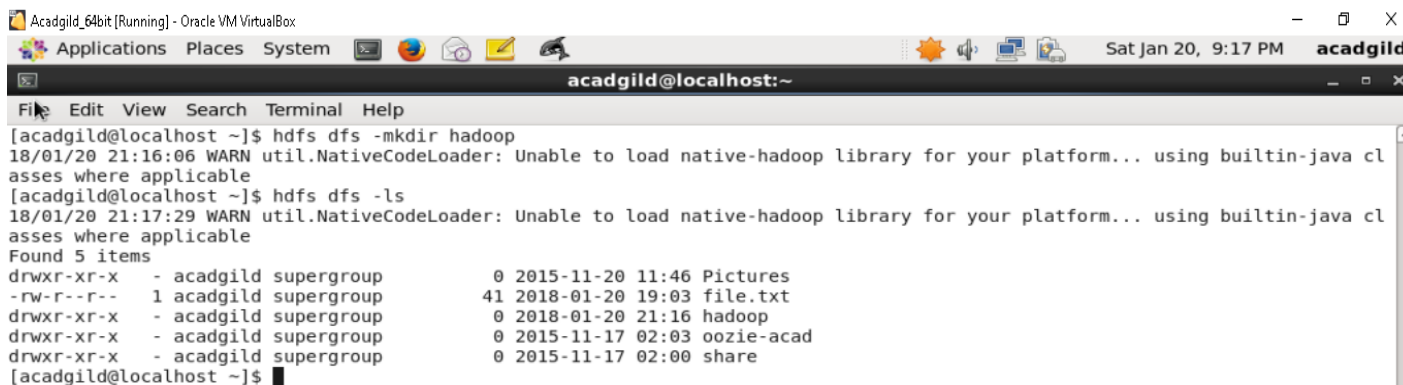

To create a directory, we use **mkdir** command and **ls** command to check the directory in hdfs directory.

Command: hdfs dfs -mkdir Hadoop
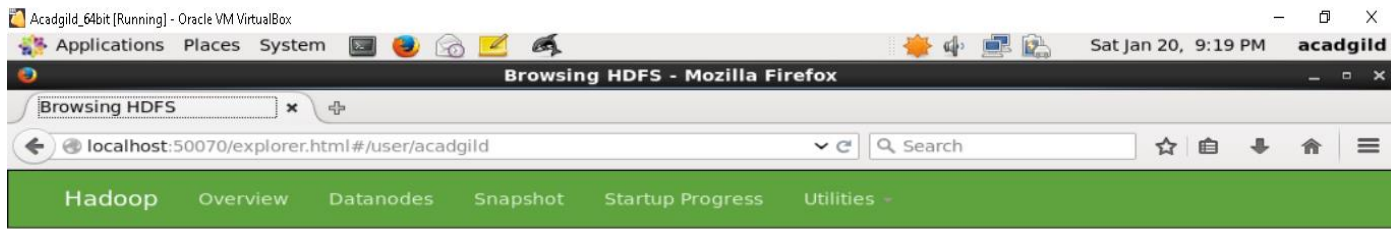
        hdfs dfs   -ls

Output: ---

TASK2: **Create a file under directory /user/acadgild/hadoop, with name word-count.txt and whatever data is type on screen should append to this file.**

We first create an empty file with name word-count.txt by **touchz** command.

Command: hdfs dfs –touchz /user/acadgild/hadoop/word-count.txt

hdfs dfs -ls /user/acadgild/hadoop/
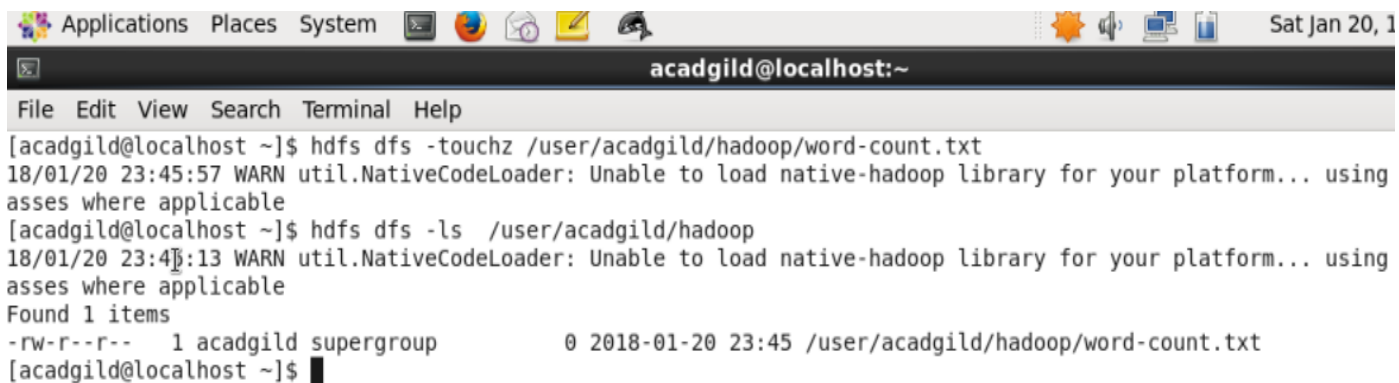
Now we will create a text file by sample.txt and then whatever we type on the terminal will be update in the file, by using the **cat** command.

Command: cat > sample.txt

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                                    acadgild@localhost:~                              _ □ X

File  Edit  View  Search  Terminal  Help
[acadgild@localhost ~]$ cat>sample.txt
The Apache Hadoop software library is a framework that allows for the distributed processing of large data sets across cluste
rs of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, eac
h offering local computation and storage. Rather than rely on hardware to deliver high-availability, the library itself is de
signed to detect and handle failures at the application layer, so delivering a highly-available service on top of a cluster o
f computers, each of which may be prone to failures.

abc def ffmm fmfmm
[acadgild@localhost ~]$ cat sample.txt
The Apache Hadoop software library is a framework that allows for the distributed processing of large data sets across cluste
rs of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, eac
h offering local computation and storage. Rather than rely on hardware to deliver high-availability, the library itself is de
signed to detect and handle failures at the application layer, so delivering a highly-available service on top of a cluster o
f computers, each of which may be prone to failures.

abc def ffmm fmfmm
[acadgild@localhost ~]$ █
```
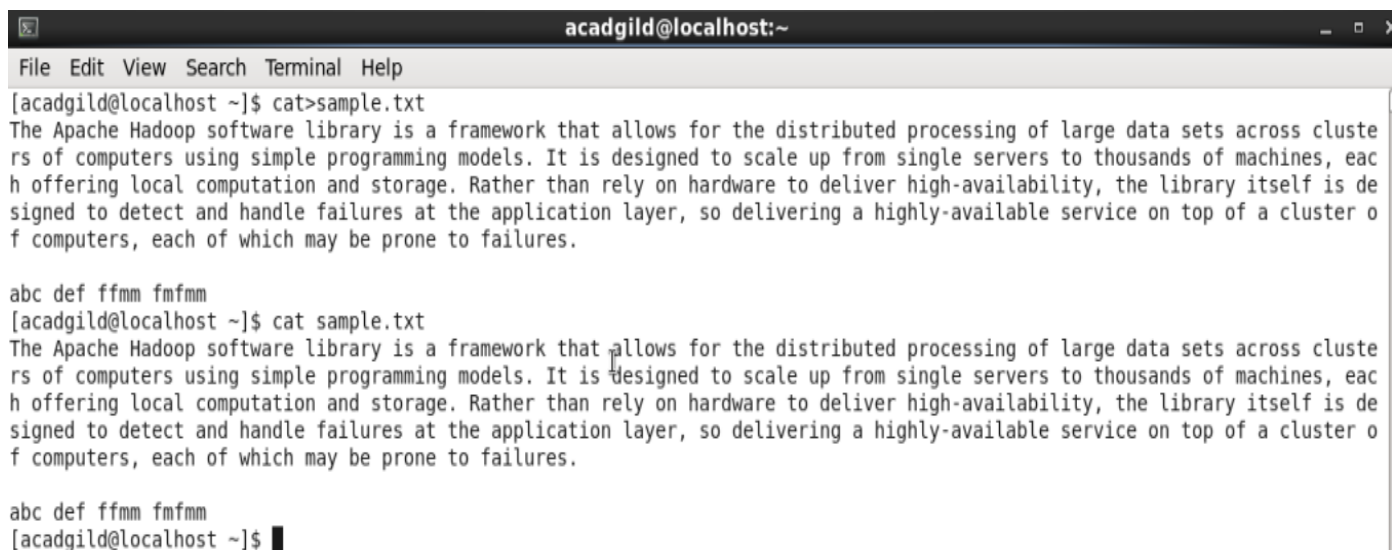
 Now we append the data from sample.txt to existing file word-count.txt under directory /user/acadgild/hadoop and will check the data in file by using **cat** command.

Commands: hdfs dfs   -appendToFile sample.txt   /user/acadgild/hadoop/word-count.txt

            hdfs dfs   -cat   /user/acadgild/hadoop/word-count.txt

acadgild@localhost:~

File Edit View Search Terminal Help

[acadgild@localhost ~]$ hdfs dfs -appendToFile sample.txt /user/acadgild/hadoop/word-count.txt
18/01/20 23:53:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hdfs dfs -cat /user/acadgild/hadoop/word-count.txt
18/01/20 23:54:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
The Apache Hadoop software library is a framework that allows for the distributed processing of large data sets across cluste
rs of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, eac
h offering local computation and storage. Rather than rely on hardware to deliver high-availability, the library itself is de
signed to detect and handle failures at the application layer, so delivering a highly-available service on top of a cluster o
f computers, each of which may be prone to failures.

abc def ffmm fmfmm
[acadgild@localhost ~]$ ▮

TASK3: Create a file max-temp.txt in local FS , put some records and move the file in hdfs under directory /user/acadgild/hadoop

Use cat command to create a max-temp.txt in local file system.

Command: cat>max-temp.txt

            cat max-temp.txt

acadgild@localhost:~

File Edit View Search Terminal Tabs Help

acadgild@localhost:~   ✖ acadgild@localhost:~

[acadgild@localhost ~]$ cat> max-temp.txt
dd-mm-yyyy,temperature
10-01-1990,26
12-03-1991,29
13-01-1992,30
14-02-1993,25
22-05-1994,35
05-03-1996,29
04-06-1997,31
11-05-1998,23
[acadgild@localhost ~]$ cat max-temp.txt
dd-mm-yyyy,temperature
10-01-1990,26
12-03-1991,29
13-01-1992,30
14-02-1993,25
22-05-1994,35
05-03-1996,29
04-06-1997,31
11-05-1998,23

By manually entering some data in max-temp.txt, we can put file in hdfs by using **put** command.

Command: hdfs dfs -put max-temp.txt /user/acadgild/hadoop/

```
 ▣                              acadgild@localhost:~

File  Edit  View  Search  Terminal  Tabs  Help

acadgild@localhost:~                          ✖  acadgild@localhost:~

[acadgild@localhost ~]$ hdfs dfs -put max-temp.txt /user/acadgild/hadoop/
18/01/21 00:12:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform...
asses where applicable
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/hadoop/
18/01/21 00:13:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform...
asses where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup        135 2018-01-21 00:12 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup        573 2018-01-20 23:53 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$ █
```

TASK4: **To change the permission of the file max-temp.txt, such that only the owner and group members have full control over the file**

To change the permission of the file max-temp.txt, we use **chmod** command to give the permission only to user and owner.

770—we have select this option to provide full access to owner and group and denied access to others.

Command: hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.txt

File   Edit   View   Search   Terminal   Tabs   Help

acadgild@localhost:~   acadgild@localhost:~

```
[acadgild@localhost ~]$ hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/01/21 04:03:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hdfs dfs -ls -h /user/acadgild/hadoop/
18/01/21 04:03:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 2 items
-rwxrwx---   1 acadgild supergroup        135 2018-01-21 00:12 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup        573 2018-01-20 23:53 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```