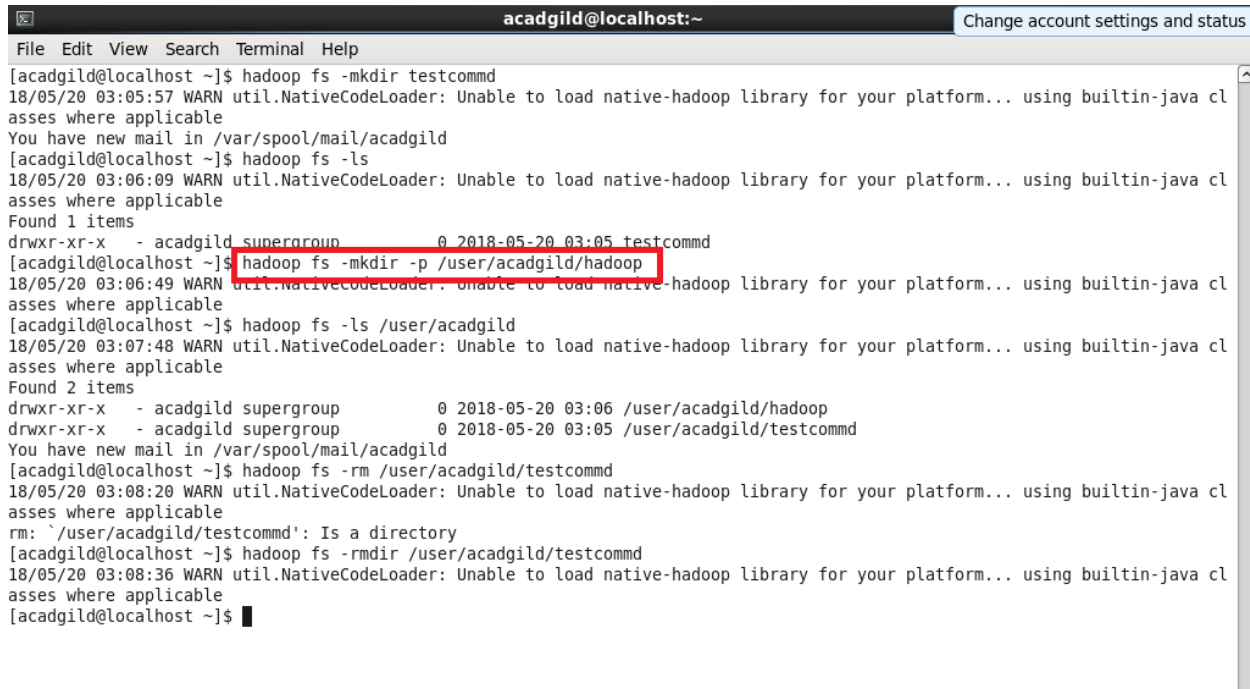**Task 1:**

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.

Command :hdfs dfs -mkdir /user/acadgild/hadoop

Explanation: hdfs dfs –mkdir dirname is used to create a new directory

Output:

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.

Commands and Explanation :

- **hdfs dfs –touchz /user/acadgild/hadoop/word-count.txt**
  -touchz is used to create a new file [word-count.txt] in hdfs
- **vi word-count.txt**
  vi is used to create a new file in local FS. Once the file is created add few data to the file.
- **hdfs dfs -appendToFile word-count.txt /user/acadgild/hadoop/word-count.txt**
  -apppendToFile is used to append the data to the file.

Output:

```
[acadgild@localhost ~]$ cd /user/acadgild/hadoop
bash: cd: /user/acadgild/hadoop: No such file or directory
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/05/20 03:18:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... usin
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls
18/05/20 03:19:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... usin
asses where applicable
Found 2 items
drwxr-xr-x   - acadgild supergroup          0 2018-05-20 03:18 hadoop
-rw-r--r--   1 acadgild supergroup          0 2018-05-20 03:17 word-count.txt
[acadgild@localhost ~]$
```

Applications Places System   🦊 🌐 📝 🖥 🐋   🔊 🖥 🔋   Sun May 20, 5:07 AM   **Acadgild**

acadgild@localhost:~   _ □ ✕

File Edit View Search Terminal Help

```
[acadgild@localhost ~]$ cat word-count.txt
Hadoop runs on clusters of commodity servers and can scale
up to support thousands of hardware nodes and massive amounts of data.
It uses a namesake distributed file system that's
designed to provide rapid data access across the nodes in a cluster,
plus fault-tolerant capabilities so applications can continue to run if individual nodes fail
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/05/20 05:05:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -appendToFile word-count.txt /user/acadgild/hadoop/word-count.txt
18/05/20 05:06:06 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 ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/05/20 05:06:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Hadoop runs on clusters of commodity servers and can scale
up to support thousands of hardware nodes and massive amounts of data.
It uses a namesake distributed file system that's
designed to provide rapid data access across the nodes in a cluster,
plus fault-tolerant capabilities so applications can continue to run if individual nodes fail
[acadgild@localhost ~]$ vi word-count.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```
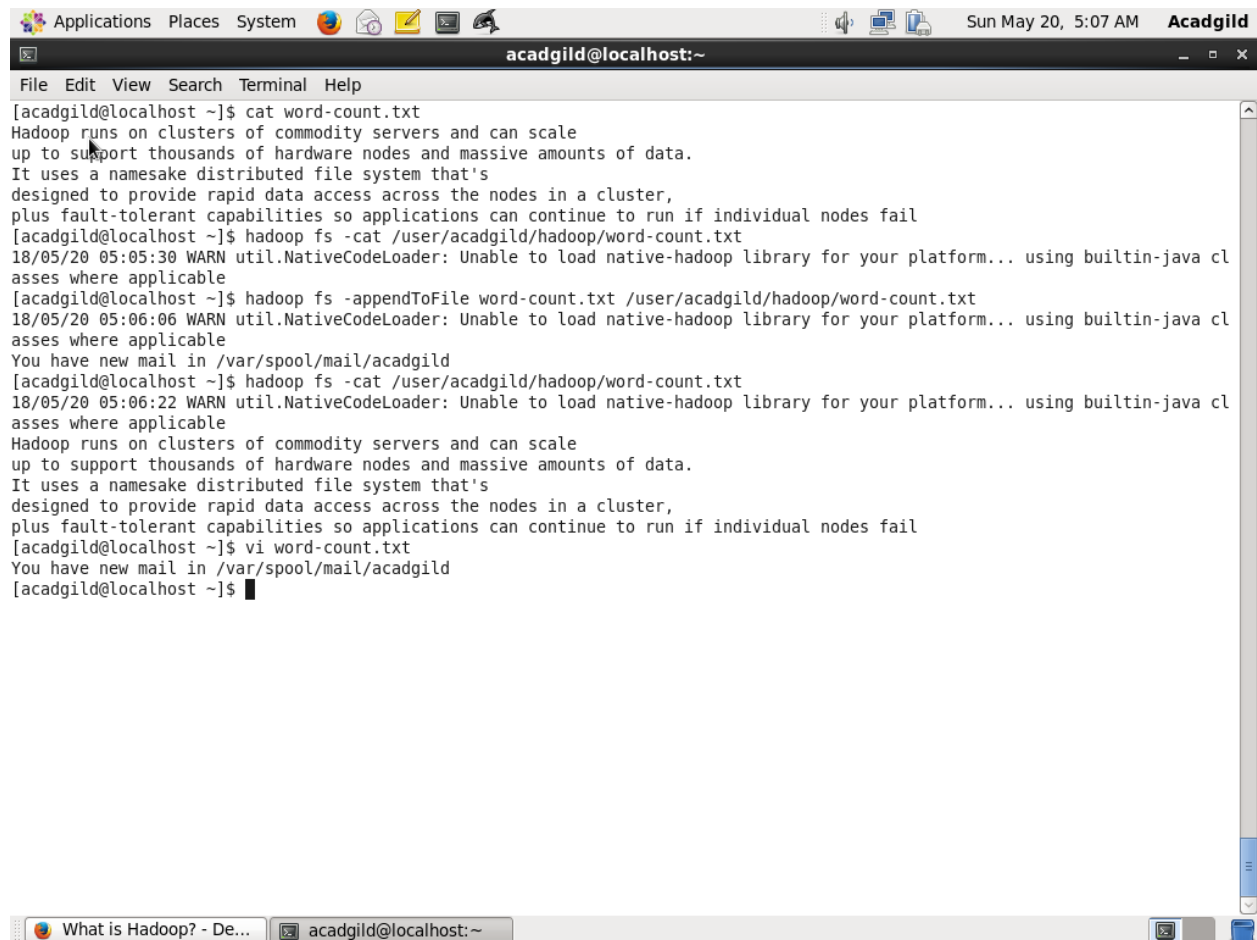
🦊 What is Hadoop? - De...   📧 acadgild@localhost:~   🖥 ▣

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

Commands and Explanation :

- **vi max-temp.txt**

  vi is used to create a new file in local FS. Once the file is created add few data to the file.

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

  -put is used to add the file from local FS to hadoop FS.
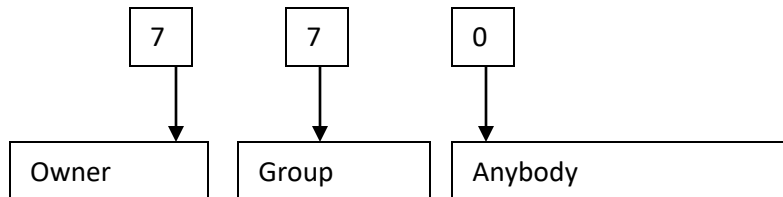
Output:

```
[acadgild@localhost ~]$ vi max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-temp.txt
20-01-1991,10
20-02-1992,20
20-03-1993,30
20-05-1994,50
20-06-1996,80
20-01-1997,90
20-05-1999,20
30-09-2000,30
31-12-2001,40
01-01-2002,10
[acadgild@localhost ~]$ hdfs dfs -put max-temp.txt /user/acadgild/hadoop/
18/05/20 05:40:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/hadoop/
18/05/20 05:40:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup        140 2018-05-20 05:40 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup       1380 2018-05-20 05:34 /user/acadgild/hadoop/word-count.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hdfs dfs -cat /user/acadgild/hadoop/max-temp.txt
18/05/20 05:41:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
20-01-1991,10
20-02-1992,20
20-03-1993,30
20-05-1994,50
20-06-1996,80
20-01-1997,90
20-05-1999,20
30-09-2000,30
31-12-2001,40
01-01-2002,10
[acadgild@localhost ~]$
```

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.

Commands and Explanation :

- **hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.txt**
  -chmod 770 provides the required access

7	7	0
Owner	Group	Anybody

7 -> will have permission for Read,write,Execute

Output: