Task 1: To check whether /user/acadgild d/irectory exists or not in HDFS. If it doesn't then create this.

Create directory /user/acadgild/hadoop.

Solution: The directory does not exist. Hence created using hadoop fs –mkdir /user/acadgild/hadoop.

;

```
File  Edit  View  Search  Terminal  Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -mkdir /user
18/06/18 21:39:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild
18/06/18 21:40:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/06/18 21:40:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$
```

To check if the directory was created:

```
[acadgild@localhost ~]$ hadoop fs -ls /user
18/06/18 21:46:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
drwxr-xr-x   - acadgild supergroup          0 2018-06-18 21:40 /user/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/06/18 21:46:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
drwxr-xr-x   - acadgild supergroup          0 2018-06-18 21:40 /user/acadgild/hadoop
[acadgild@localhost ~]$
```

Task 2: Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

Whatever we type on the screen should get appended to the file. Try to type on the screen few lines from any online article or textbook.

Solution: touchz command is used to create a file of zero length in hdfs.

hadoop fs –touchz /user/acadgild/hadoop/wordcount.txt

Another file t1.txt was created using vi editor and the contents were appended to the file created.

hadoop fs –appendToFile t1.txt /acadgild/hadoop/wordcount.txt

hadoop fs -cat /acadgild/hadoop/wordcount.txt

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/wordcount.txt
18/06/18 21:52:31 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 -ls /user/acadgild/hadoop
18/06/18 21:53:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rw-r--r--   1 acadgild supergroup          0 2018-06-18 21:52 /user/acadgild/hadoop/wordcount.txt
[acadgild@localhost ~]$ nano t1.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -appendToFile t1.txt /user/acadgild/hadoop/wordcount.txt
18/06/18 21:56:38 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/wordcount.txt
18/06/18 21:57:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Hi, this is my second assignment
```

Task 3: Create a file max-temp.txt in local fs

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

10-10-1990, 10

10-10-1991, 20

Move this file to HDFS /user/acadgild/hadoop

Solution:

A file is created using Vi editor with 10 records

It is moved from local FS to HDFS using a put command as follows:

hadoop fs –put max-temp.txt /user/acadgild/hadoop.

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ vi max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-temp.txt
10-01-1990, 10
10-01-1991, 20
10-01-1992, 30
10-01-1993, 40
10-01-1994, 50
10-01-1995, 60
10-01-1996, 70
10-01-1997, 80
10-01-1998, 90
10-01-1999, 100
[acadgild@localhost ~]$ hadoop fs -put max-temp.txt /user/acadgild/hadoop
18/06/18 22:04:01 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 -ls /user/acadgild/hadoop
18/06/18 22:04:21 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          151 2018-06-18 22:04 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup           33 2018-06-18 21:56 /user/acadgild/hadoop/wordcount.txt
```

Task 4: Change the permissions of the file /user/acadgild/hadoop/max-temp.txt such that the owner and the group members have the full control over it others do not have any permissions .

Solution:

hadoop fs –chmod 770 is used to change the permssions

Here 7 means all read,write execute control whereas 0 means no control.

```
-rw-r--r--   1 acadgild supergroup           33 2018-06-18 21:56 /user/acadgild/hadoop/wordcount.txt
[acadgild@localhost ~]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/06/18 22:08:31 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 -ls /user/acadgild/hadoop
18/06/18 22:08:53 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          151 2018-06-18 22:04 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup           33 2018-06-18 21:56 /user/acadgild/hadoop/wordcount.txt
[acadgild@localhost ~]$
```