

Assignment 2.1

Task 1.

Command used:

- Hadoop fs -ls / : directories details of hadoop file system along with their read, write and execute details for user, group and other access.
- Hadoop fs -ls /user : details for directories /user/acadgildis in hadoop file system.

```
acadgild@localhost:~$  
[acadgild@localhost ~]$ hadoop fs -ls /  
18/03/07 21:54:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
Found 4 items  
drwxr-xr-x - acadgild supergroup      0 2018-02-24 16:59 /hbase  
drwxr-xr-x - acadgild supergroup      0 2018-01-16 13:57 /home  
drwxrwx--- - acadgild supergroup      0 2018-02-10 15:45 /tmp  
drwxrwxrwx - acadgild supergroup      0 2017-12-29 22:25 /user  
[acadgild@localhost ~]$ hadoop fs -ls /user  
18/03/07 21:54:52 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
Found 2 items  
drwxrwxrwx - acadgild supergroup      0 2018-03-07 21:51 /user/acadgild  
drwxrwxrwx - acadgild supergroup      0 2017-12-29 22:25 /user/hive  
[acadgild@localhost ~]$
```

- Hadoop fs -mkdir hadoop : hadoop directory is made in the hadoop file system

```

acadgild@localhost:~$ hadoop fs -mkdir hadoop
18/03/07 21:58:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /
18/03/07 22:01:46 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 4 items
drwxr-xr-x - acadgild supergroup          0 2018-02-24 16:59 /hbase
drwxr-xr-x - acadgild supergroup          0 2018-01-16 13:57 /home
drwxrwx-- - acadgild supergroup          0 2018-02-10 15:45 /tmp
drwxrwxrwx - acadgild supergroup          0 2017-12-29 22:25 /user
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/03/07 22:02:15 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 8 items
drwxr-xr-x - acadgild supergroup          0 2018-01-16 13:57 /user/acadgild/.sparkStaging
drwxr-xr-x - acadgild supergroup          0 2018-02-03 21:28 /user/acadgild/Temperature
-rw-r--r-- 1 acadgild supergroup         48 2018-02-02 18:28 /user/acadgild/fill.txt
-rw-r--r-- 1 acadgild supergroup        41 2018-03-07 19:04 /user/acadgild/file2.txt
drwxr-xr-x - acadgild supergroup          0 2018-03-07 21:58 /user/acadgild/hadoop
drwxr-xr-x - acadgild supergroup          0 2018-02-17 16:03 /user/acadgild/hive_ext
drwxr-xr-x - acadgild supergroup          0 2018-02-10 15:28 /user/acadgild/pig
drwxr-xr-x - acadgild supergroup          0 2018-02-02 18:37 /user/acadgild/wc
[acadgild@localhost ~]$

```

Task 2.

Command used:

- a. Hadoop fs --appendToFile -- hadoop/word_count.txt

: appendToFile is used to append data from source to destination, if source is "--"

Data directly gets added to destination file and if file is not present at destination directory it gets created automatically. In this case, the file is **word_count.txt**

```

acadgild@localhost:~
[acadgild@localhost ~]$ hadoop fs -appendToFile - hadoop/word_count.txt
18/03/07 23:26:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
big data
is large sets
of data handled by
hadoop and spark
^C18/03/07 23:27:48 WARN hdfs.DataStreamer: Caught exception
java.lang.InterruptedException
    at java.lang.Object.wait(Native Method)
    at java.lang.Thread.join(Thread.java:1252)
    at java.lang.Thread.join(Thread.java:1326)
    at org.apache.hadoop.hdfs.DataStreamer.closeResponder(DataStreamer.java:980)
    at org.apache.hadoop.hdfs.DataStreamer.endBlock(DataStreamer.java:630)
    at org.apache.hadoop.hdfs.DataStreamer.run(DataStreamer.java:807)
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$

```

Task3

Command used:

- Cat > max_temp.txt : create **max_temp** file in local file system and insert the data by typing on the screen.
- Hadoop fs -put max_temp.txt hadoop : push the file **max_temp.txt** to hadoop directory into hadoop file system from local file system
- Hadoop fs -ls hadoop : locate the recently pushed file into hadoop filesystem
- Hadoop fs -cat hadoop/max_temp.txt : to open the file and locate the data present in it.

```

acadgild@localhost:~
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$ cat > max_temp.txt
10-01-1990,10
10-02-1991,20
10-03-1992,30
10-04-1993,40
10-05-1994,50
10-06-1995,60
10-07-1996,70
^C
[acadgild@localhost ~]$ hadoop fs -put max_temp.txt hadoop
18/03/07 23:31:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls hadoop
18/03/07 23:31:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 98 2018-03-07 23:31 hadoop/max_temp.txt
-rw-r--r-- 1 acadgild supergroup 60 2018-03-07 23:27 hadoop/word_count.txt
[acadgild@localhost ~]$ hadoop fs -cat hadoop/max temp.txt
18/03/07 23:31:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
10-01-1990,10
10-02-1991,20
10-03-1992,30
10-04-1993,40
10-05-1994,50
10-06-1995,60
10-07-1996,70
[acadgild@localhost ~]$

```

Task 4

Command used:

- a. Hadoop fs -ls hadoop : to know the permission available for the file max_temp.txt

```
acadgild@localhost:~  
[acadgild@localhost ~]$  
[acadgild@localhost ~]$ hadoop fs -ls hadoop  
18/03/08 00:09:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r-- 1 acadgild supergroup 98 2018-03-07 23:31 hadoop/max_temp.txt  
-rw-r--r-- 1 acadgild supergroup 60 2018-03-07 23:27 hadoop/word_count.txt  
[acadgild@localhost ~]$ su hadoop  
su: user hadoop does not exist  
[acadgild@localhost ~]$ hadoop fs -ls /hadoop  
18/03/08 00:11:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
-rw-r--r-- 1 acadgild supergroup 145 2018-03-07 23:00 /hadoop  
[acadgild@localhost ~]$ hadoop fs -ls hadoop  
18/03/08 00:11:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r-- 1 acadgild supergroup 98 2018-03-07 23:31 hadoop/max_temp.txt  
-rw-r--r-- 1 acadgild supergroup 60 2018-03-07 23:27 hadoop/word_count.txt  
[acadgild@localhost ~]$ su supergroup  
su: user supergroup does not exist  
[acadgild@localhost ~]$ su hadoop  
su: user hadoop does not exist  
[acadgild@localhost ~]$ cd hadoop  
-bash: cd: hadoop: No such file or directory  
[acadgild@localhost ~]$ cd avcadgild  
-bash: cd: avcadgild: No such file or directory  
[acadgild@localhost ~]$ cd acadgild  
-bash: cd: acadgild: No such file or directory  
[acadgild@localhost ~]$ su acadgild  
Password:  
su: incorrect password  
[acadgild@localhost ~]$ hadoop fs -chmod o+rw /hadoop/max_temp.txt  
18/03/08 00:13:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
chmod: `/hadoop/max_temp.txt': No such file or directory  
[acadgild@localhost ~]$ hadoop fs -chmod g+rw /hadoop/max_temp.txt  
18/03/08 00:14:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable  
chmod: `/hadoop/max_temp.txt': No such file or directory  
[acadgild@localhost ~]$ hadoop fs -chmod g+rw /user/acadgild/hadoop/max_temp.txt  
18/03/08 00:15:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for  
your platform... using builtin-java classes where applicable
```

- b. `Hadoop fs -chmod u+rw x g+rw x o-rwx /user/acadgild/hadoop/max_temp.txt`
- : `chmod` is the command to change the permission access to various file and directories.

acadgild@localhost~

```
18/03/08 00:19:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Found 2 items
-rw-rwx--x   1 acadgild supergroup          98 2018-03-07 23:31 hadoop/max_temp.txt
-rw-r--r--   1 acadgild supergroup          60 2018-03-07 23:27 hadoop/word_count.txt
[acadgild@localhost ~]$ hadoop fs -chmod o-x /user/acadgild/hadoop/max_temp.txt
18/03/08 00:20:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls hadoop
18/03/08 00:20:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Found 2 items
-rw-rwx---   1 acadgild supergroup          98 2018-03-07 23:31 hadoop/max_temp.txt
-rw-r--r--   1 acadgild supergroup          60 2018-03-07 23:27 hadoop/word_count.txt
[acadgild@localhost ~]$ hadoop fs -chmod u+x /user/acadgild/hadoop/max_temp.txt
18/03/08 00:20:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls hadoop
18/03/08 00:20:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Found 2 items
-rwxrwx---   1 acadgild supergroup          98 2018-03-07 23:31 hadoop/max_temp.txt
-rw-r--r--   1 acadgild supergroup          60 2018-03-07 23:27 hadoop/word_count.txt
[acadgild@localhost ~]$
```



Type here to search

