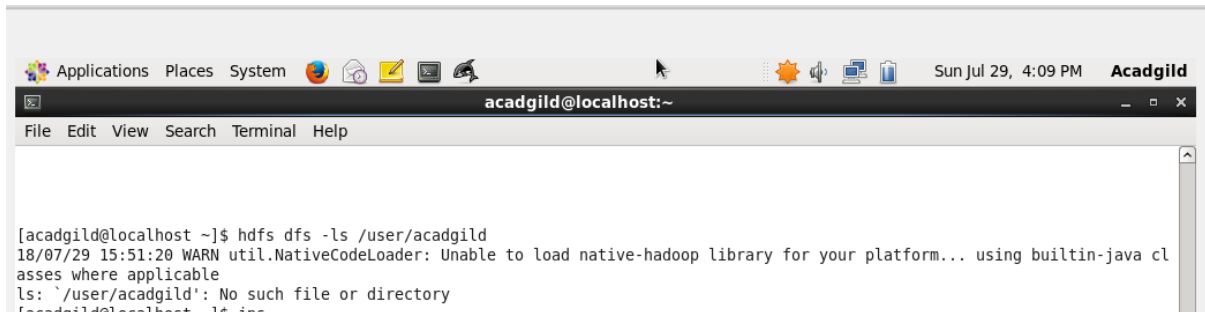


Assignment-2

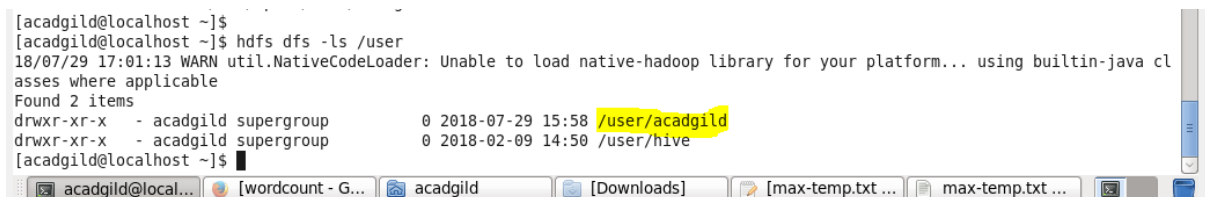
1). Check whether /user/acadgild directory exists or not in the HDFS.

In the given path, /user/acadgild directory is not present in HDFS.



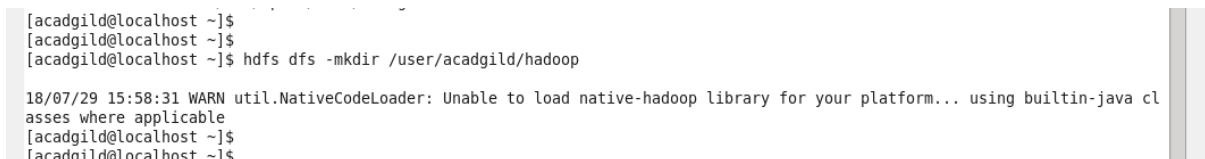
```
acadmild@localhost:~  
File Edit View Search Terminal Help  
  
[acadmild@localhost ~]$ hdfs dfs -ls /user/acadmild  
18/07/29 15:51:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
ls: '/user/acadmild': No such file or directory  
acadmild@localhost ~$
```

Created the folder /user/acadgild in HDFS.



```
[acadmild@localhost ~]$  
[acadmild@localhost ~]$ hdfs dfs -ls /user  
18/07/29 17:01:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
Found 2 items  
drwxr-xr-x - acadmild supergroup 0 2018-07-29 15:58 /user/acadmild  
drwxr-xr-x - acadmild supergroup 0 2018-02-09 14:50 /user/hive  
[acadmild@localhost ~]$
```

Created the folder hadoop in /user/acadgild.



```
[acadmild@localhost ~]$  
[acadmild@localhost ~]$  
[acadmild@localhost ~]$ hdfs dfs -mkdir /user/acadmild/hadoop  
  
18/07/29 15:58:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
[acadmild@localhost ~]$  
[acadmild@localhost ~]$
```

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

Created the file word-count.txt in /user/acadgild/hadoop in HDFS.

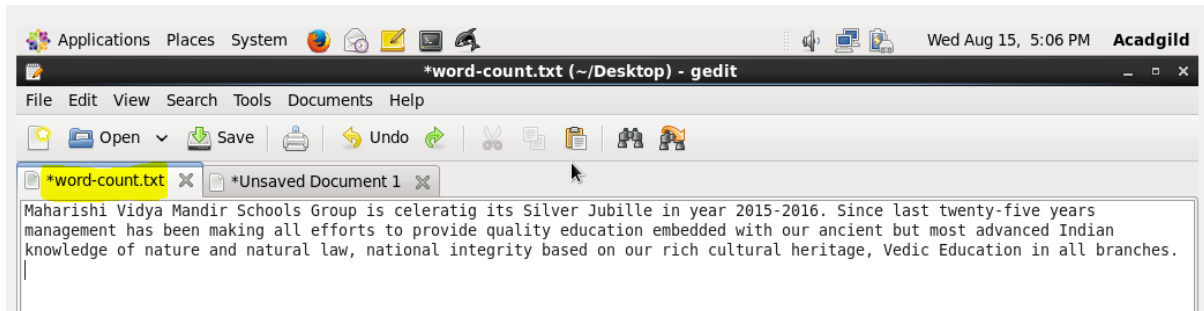
```
Applications Places System acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/08/15 16:41:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/08/15 16:42:06 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 156 2018-07-29 16:49 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 0 2018-08-15 16:41 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```

- Initially the created file is empty
- Some text is added to the file using the below command:
- `echo "text" | hadoop fs -appendToFile /user/acadgild/hadoop/word-count.txt`. The text provided in the command is passed using pipe(|) command to appendToFile which will append the text to the file.
- Now the contents of the file are viewed using the **hdfs cat** command.
- Again some content is appended to the file and it is viewed using the **cat** command.

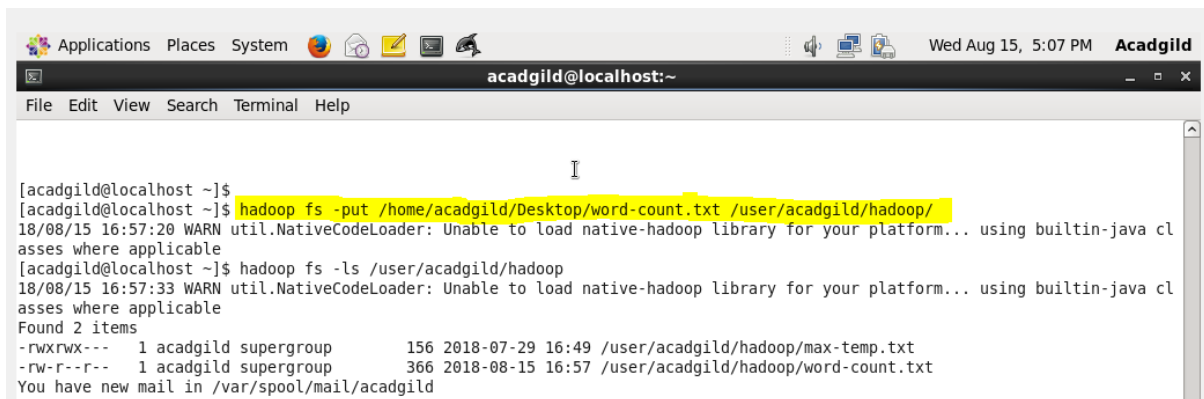
```
Applications Places System acadgild@localhost:~
File Edit View Search Terminal Help
asses where applicable
Found 2 items
-rwxrwx--- 1 acadgild supergroup 156 2018-07-29 16:49 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 0 2018-08-15 16:41 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
[acadgild@localhost ~]$ echo "Maharishi Vidya Mandir Schools Group is celeratig its Silver Jubille in year 2015-2016. Since l
ast twenty-five years management has been making all efforts to provide quality education embedded with our ancient but most
advanced Indian knowledge of nature and natural law, national integrity based on our rich cultural heritage, Vedic Education
in all branches." | hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/08/15 16:44:39 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 ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/08/15 16:45:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Maharishi Vidya Mandir Schools Group is celeratig its Silver Jubille in year 2015-2016. Since last twenty-five years managem
nt has been making all efforts to provide quality education embedded with our ancient but most advanced Indian knowledge of n
ature and natural law, national integrity based on our rich cultural heritage, Vedic Education in all branches.
[acadgild@localhost ~]$
[acadgild@localhost ~]$
[acadgild@localhost ~]$ echo "Our specialty is to develop and give experience of higher states of consciousness to every stude
nt, teachers, staff and their family members." | hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/08/15 16:46:07 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
18/08/15 16:46:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Maharishi Vidya Mandir Schools Group is celeratig its Silver Jubille in year 2015-2016. Since last twenty-five years managem
nt has been making all efforts to provide quality education embedded with our ancient but most advanced Indian knowledge of n
ature and natural law, national integrity based on our rich cultural heritage, Vedic Education in all branches.
Our specialty is to develop and give experience of higher states of consciousness to every student, teachers, staff and their
family members.
[acadgild@localhost ~]$
```

Another solution for the above task:

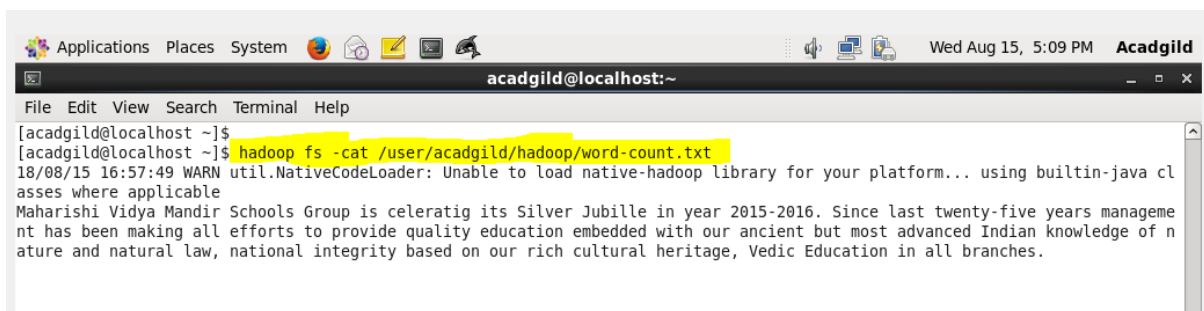
A file is created on the desktop of VM with name **word-count.txt** with contents in it.



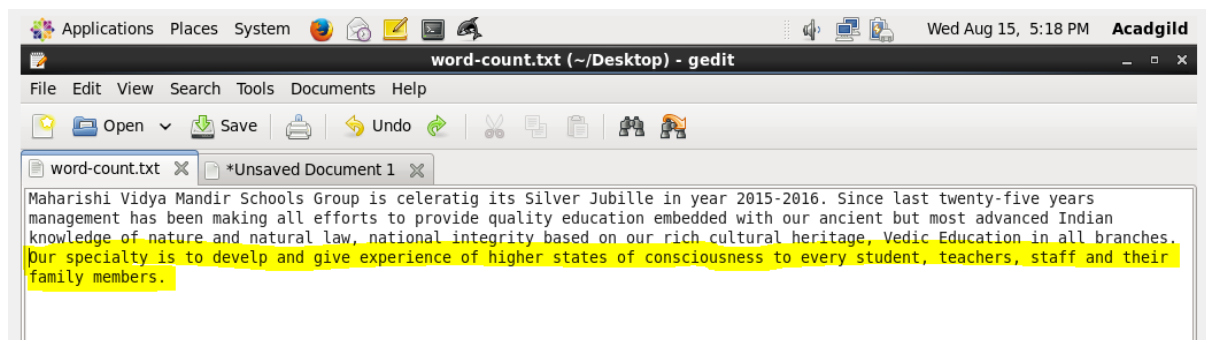
This is copied to the HDFS directory (**/user/acadgild/hadoop**) using the command highlighted in the screenshot.



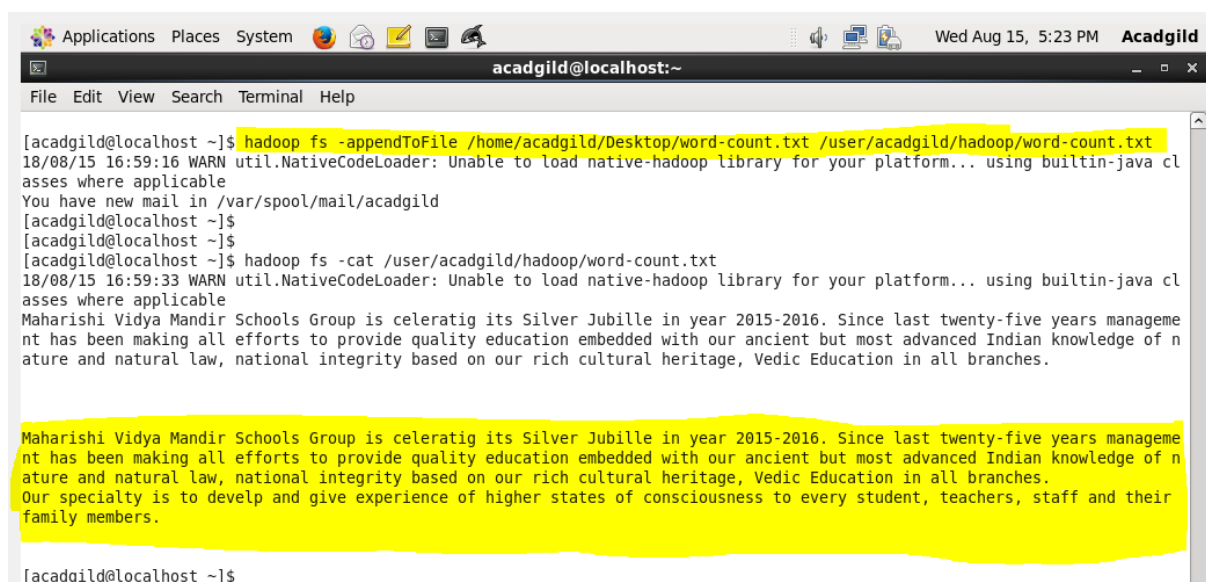
Now the contents of the copied file are viewed using the **cat** command as the highlighted in the screenshot.



Now some more contents added to the file word-count.txt which is present in the desktop of VM.

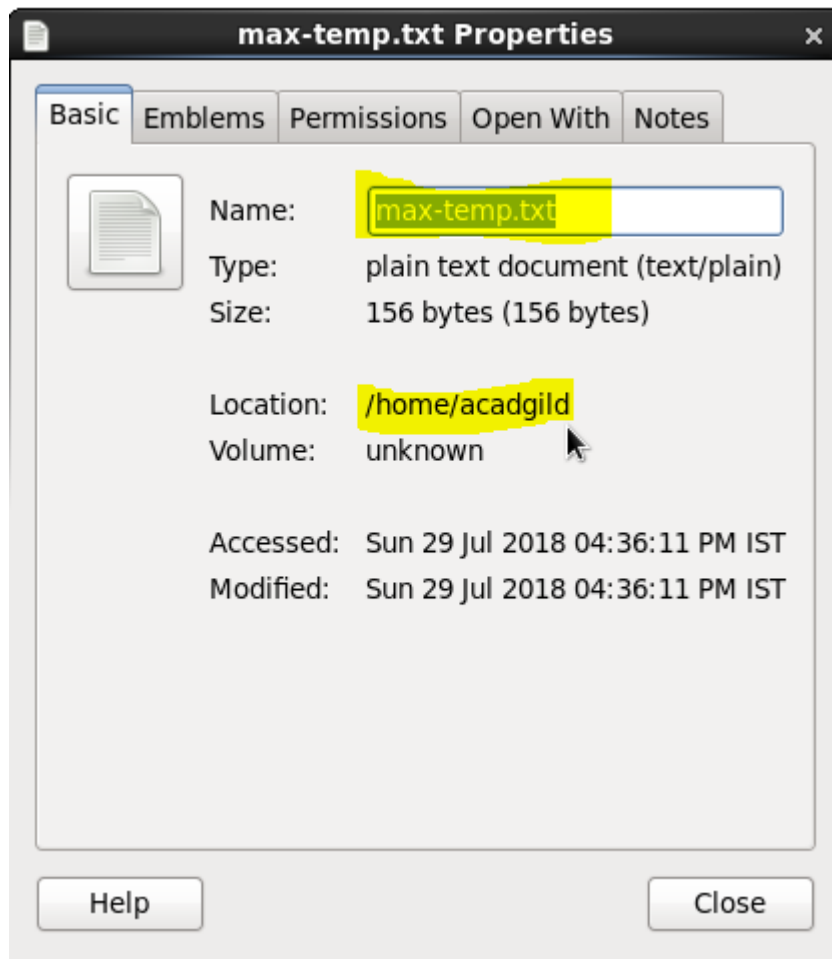


Now using the command highlighted in the screenshot, the file content is appended to the file which is present in the hdfs.

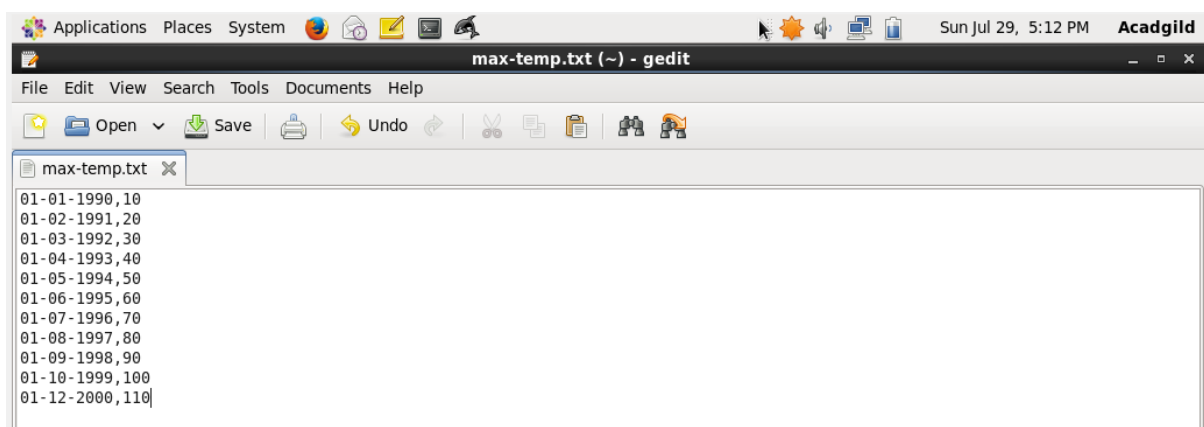


3). Create a file max-temp.txt in local FS.

Created file max-temp.txt in local FS.



12 records has been written in a max-temp.txt file.



File max-temp.txt from local FS has been moved to /user/acadgild/hadoop path in HDFS.

```
[acadgild@localhost ~]$  
[acadgild@localhost ~]$ hdfs dfs -put /home/acadgild/max-temp.txt /user/acadgild/hadoop/  
18/07/29 16:49:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl  
asses where applicable  
[acadgild@localhost ~]$  
[acadgild@localhost ~]$  
[acadgild@localhost ~]$  
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/hadoop/  
18/07/29 16:50:10 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      156 2018-07-29 16:49 /user/acadgild/hadoop/max-temp.txt  
-rw-r--r--  1 acadgild supergroup       0 2018-07-29 16:02 /user/acadgild/hadoop/word-count.txt  
[acadgild@localhost ~]$  
You have new mail in /var/spool/mail/acadgild
```

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.

File permissions has been changed such that only the owner and group members will have full control on it.

```
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/hadoop/
18/07/29 16:50:10 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      156 2018-07-29 16:49 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup       0 2018-07-29 16:02 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/07/29 16:52:11 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/
18/07/29 16:52:20 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      156 2018-07-29 16:49 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup       0 2018-07-29 16:02 /user/acadgild/hadoop/word-count.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
You have new mail in /var/spool/mail/acadgild
```