Session 2 : Introduction to HDFS

Task1

There is no folder acadgild under user directory.

Created acadgild directory using below command that is highlighted and also created Hadoop directory under acadgild.

[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild
18/05/22 11:15:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
ls: `/user/acadgild': No such file or directory
[acadgild@localhost Documents]$ **hdfs dfs -mkdir /user/acadgild**
18/05/22 11:15:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost Documents]$ **hdfs dfs -mkdir /user/acadgild/hadoop**
18/05/22 11:16:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
drwxr-xr-x   - acadgild supergroup   0 2018-05-22 11:16 /user/acadgild/hadoop
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop
18/05/22 11:16:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost Documents]$

TASK2

touchz command is used to create an empty file in hdfs, no file can be edited on hdfs.
appendToFile used to append content of the file to the file created on the hdfs.
Cat is used to see the content on the hdfs file

[acadgild@localhost Documents]$ **hdfs dfs -touchz word-count.txt**
18/05/22 11:20:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop
18/05/22 11:21:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r--   1 acadgild supergroup   0 2018-05-22 11:20 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost Documents]$ hdfs dfs -cat /user/acadgild/hadoop/word-count.txt
18/05/22 11:21:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

[acadgild@localhost Documents]$ ll
total 4
-rw-rw-r--. 1 acadgild acadgild 563 May 22 11:35 word-count.txt
[acadgild@localhost Documents]$ cat word-count.txt
Google â€" the company you turn to when you need information â€"
is one of the biggest developers of artificial intelligence.
In fact, if you googled â€œgoogle artificial intelligenceâ€• like I did,
you would find several company pages that explain their mission and showcase their work.

Google even lets you collaborate with them in their artificial intelligence experiments.
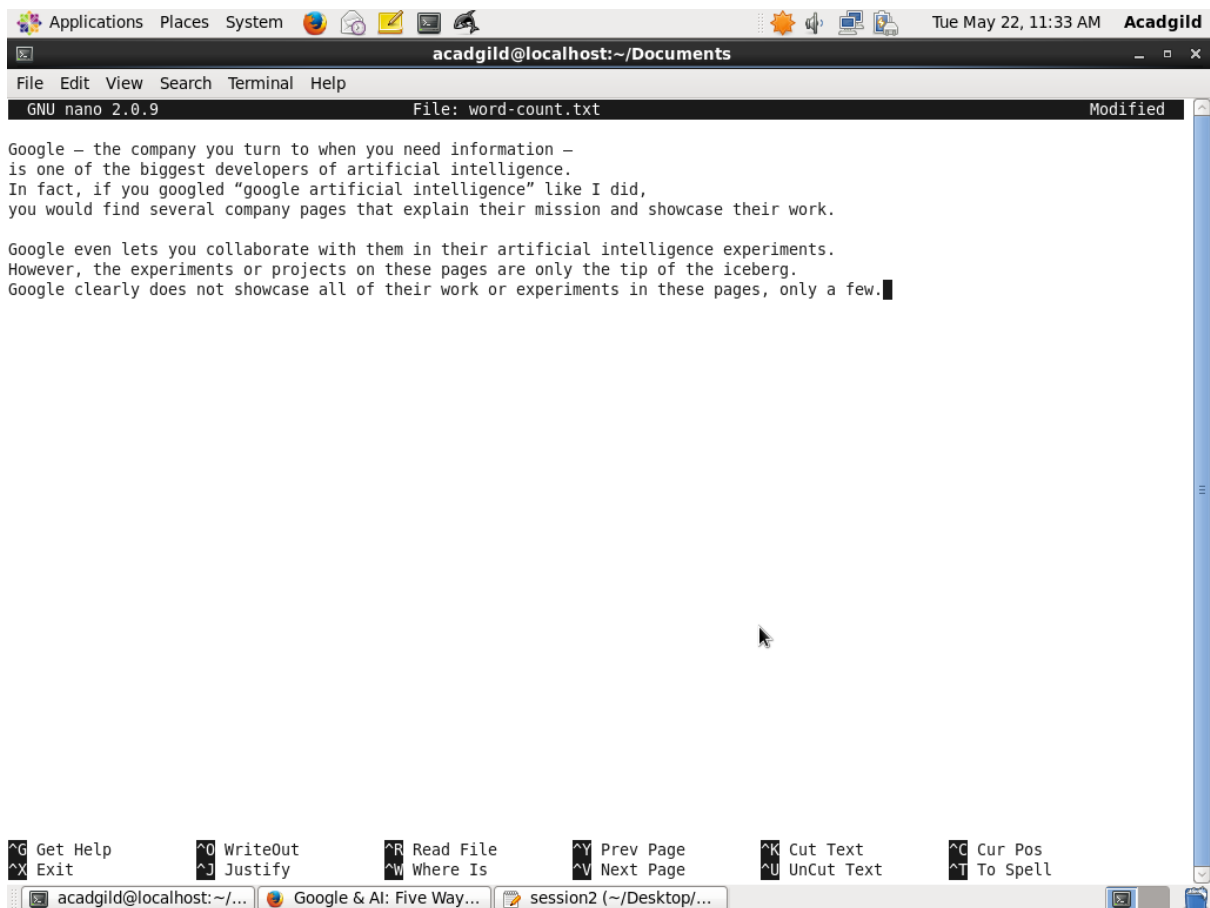However, the experiments or projects on these pages are only the tip of the iceberg.
Google clearly does not showcase all of their work or experiments in these pages, only a few.
[acadgild@localhost Documents]$
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$
[acadgild@localhost Documents]$
[acadgild@localhost Documents]$ hdfs dfs -appendToFile word-count-txt
/user/acadgild/hadoop/word-count.txt
18/05/22 11:39:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
appendToFile: /home/acadgild/Documents/word-count-txt (No such file or directory)
[acadgild@localhost Documents]$ hdfs dfs -appendToFile word-count.txt
/user/acadgild/hadoop/word-count.txt
18/05/22 11:40:18 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$ **hdfs dfs -cat /user/acadgild/hadoop/word-count.txt**
18/05/22 11:40:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
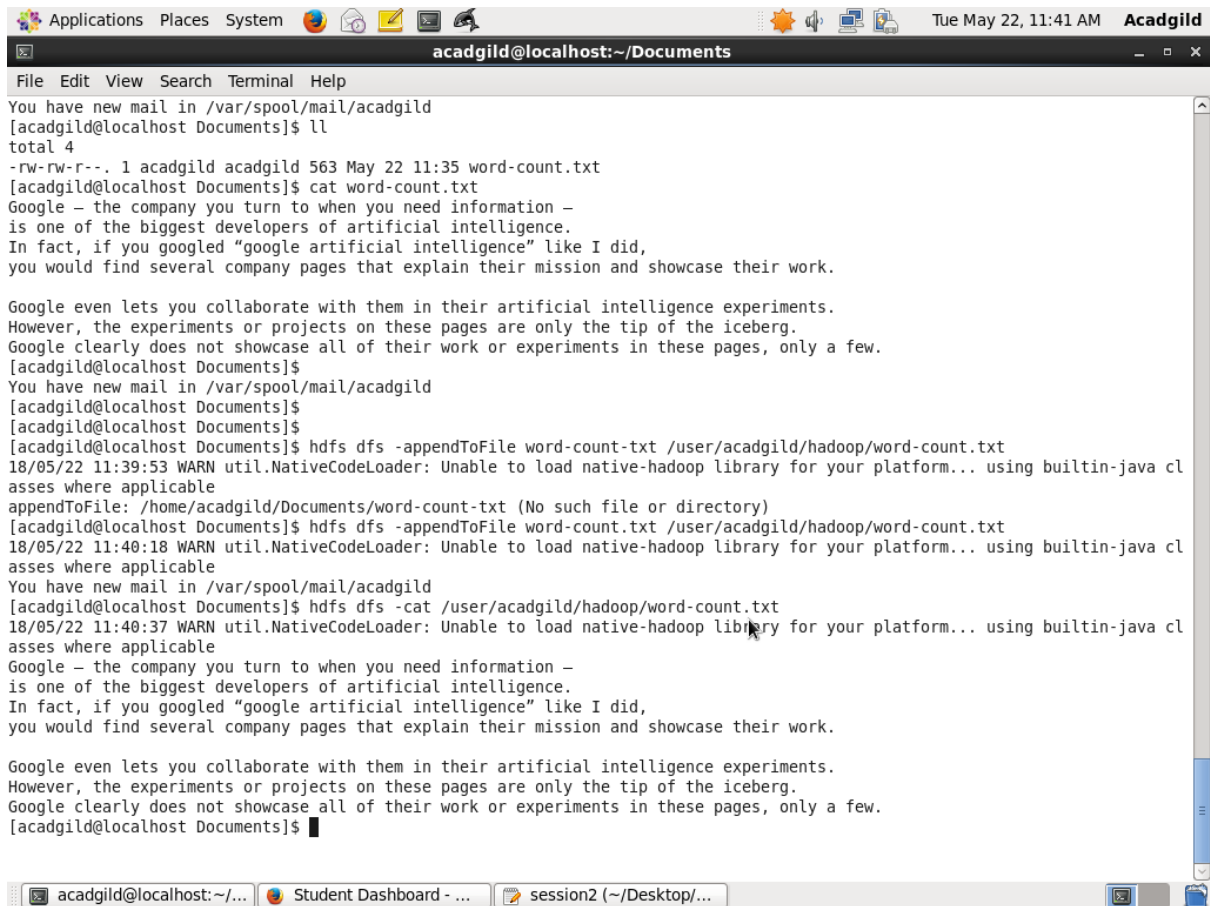your platform... using builtin-java classes where applicable
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```
[acadgild@localhost Documents]$ hdfs dfs -touchz /user/acadgild/hadoop/word-count.txt
18/05/22 11:20:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
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You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop
18/05/22 11:21:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
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Found 1 items
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[acadgild@localhost Documents]$ hdfs dfs -cat /user/acadgild/hadoop/word-count.txt
18/05/22 11:21:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost Documents]$ ^C
[acadgild@localhost Documents]$ ^C
[acadgild@localhost Documents]$ nano word-count.txt
```

acadgild@localhost:~/Documents

File   Edit   View   Search   Terminal   Help

  GNU nano 2.0.9   File: word-count.txt   Modified

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Google clearly does not showcase all of their work or experiments in these pages, only a few.

```
^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text    ^T To Spell
```

acadgild@localhost:~/...   Google & AI: Five Way...   session2 (~/Desktop/...

Task 3

Created file on local host with some date and temperature records and used put command to move the file in hdfs.

[acadgild@localhost Documents]**$ nano max-temp.text**
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$ cat max-temp.text
10-01-1990,10
10-01-1991,11
10-01-1992,12
10-01-1993,18
10-01-1994,14
10-01-1995,26
10-01-1996,26
10-01-1997,30
10-01-1998,42
10-01-1999,29
10-01-2000,14
10-01-2001,12
10-01-2002,33
10-01-2003,29
10-01-2004,14

10-01-2005,22

[acadgild@localhost Documents]$

[acadgild@localhost Documents]**$ hdfs dfs -put max-temp.text /user/acadgild/hadoop**
18/05/22 11:59:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop
18/05/22 11:59:18 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   225 2018-05-22 11:59 /user/acadgild/hadoop/max-temp.text
-rw-r--r--   1 acadgild supergroup   563 2018-05-22 11:40 /user/acadgild/hadoop/word-count.txt

[acadgild@localhost Documents]$ **hdfs dfs -cat /user/acadgild/hadoop/max-temp.text**
18/05/22 12:01:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10-01-1990,10
10-01-1991,11
10-01-1992,12
10-01-1993,18
10-01-1994,14
10-01-1995,26
10-01-1996,26
10-01-1997,30
10-01-1998,42
10-01-1999,29
10-01-2000,14
10-01-2001,12
10-01-2002,33
10-01-2003,29
10-01-2004,14
10-01-2005,22

Task 4

chmod used to change the permission of file. Complete control means full permission i.e., 7 (write-4,read -2,execute-1) and 0 means no permission.

[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop/max-temp.text

18/05/22 12:02:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

-rw-r--r-- 1 acadgild supergroup 225 2018-05-22 11:59 /user/acadgild/hadoop/max-temp.text

You have new mail in /var/spool/mail/acadgild

[acadgild@localhost Documents]$ **hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.text**

18/05/22 12:02:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop/max-temp.text

18/05/22 12:02:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

-rwxrwx--- 1 acadgild supergroup 225 2018-05-22 11:59 /user/acadgild/hadoop/max-temp.text

[acadgild@localhost Documents]$