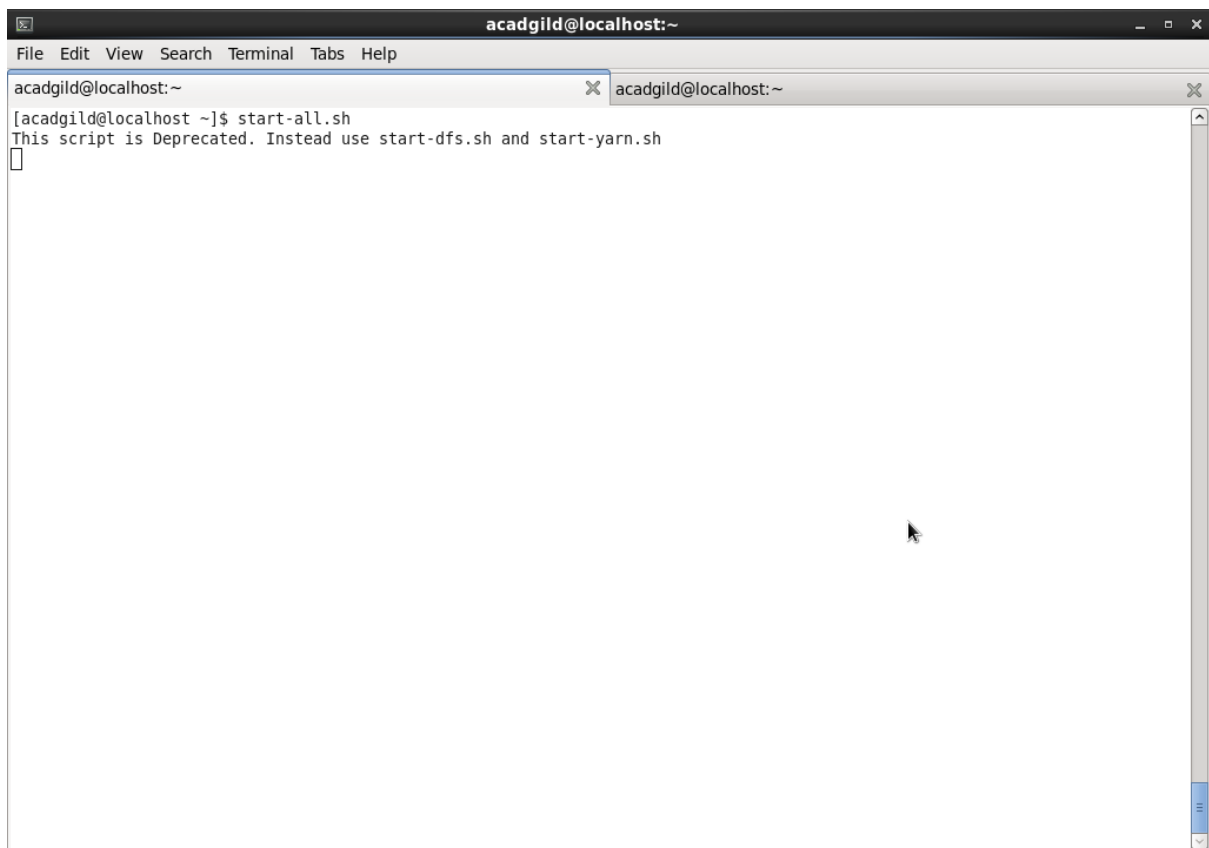


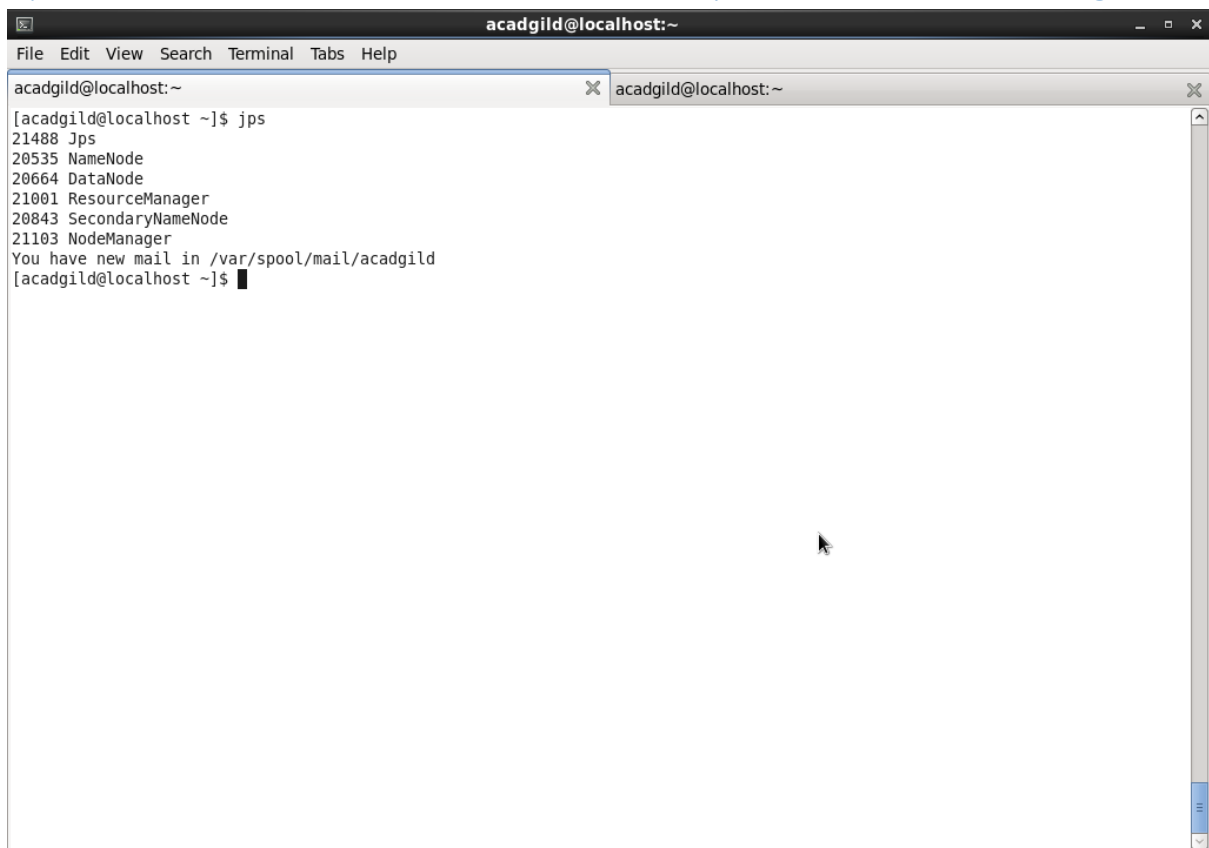
1) Start Hadoop single node on AcadGild VM. The command is start-all.sh.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The terminal shows the command '[acadgild@localhost ~]\$ start-all.sh' and its output: 'This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh'. There are two tabs open, both labeled 'acadgild@localhost:~'.

```
acadgild@localhost:~  
File Edit View Search Terminal Tabs Help  
acadgild@localhost:~ acadgild@localhost:~  
[acadgild@localhost ~]$ start-all.sh  
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh  
█
```

Start-all.sh:-This would start namenodes,datanodes,secondary name node and yarn daemons like resource manager and node manager

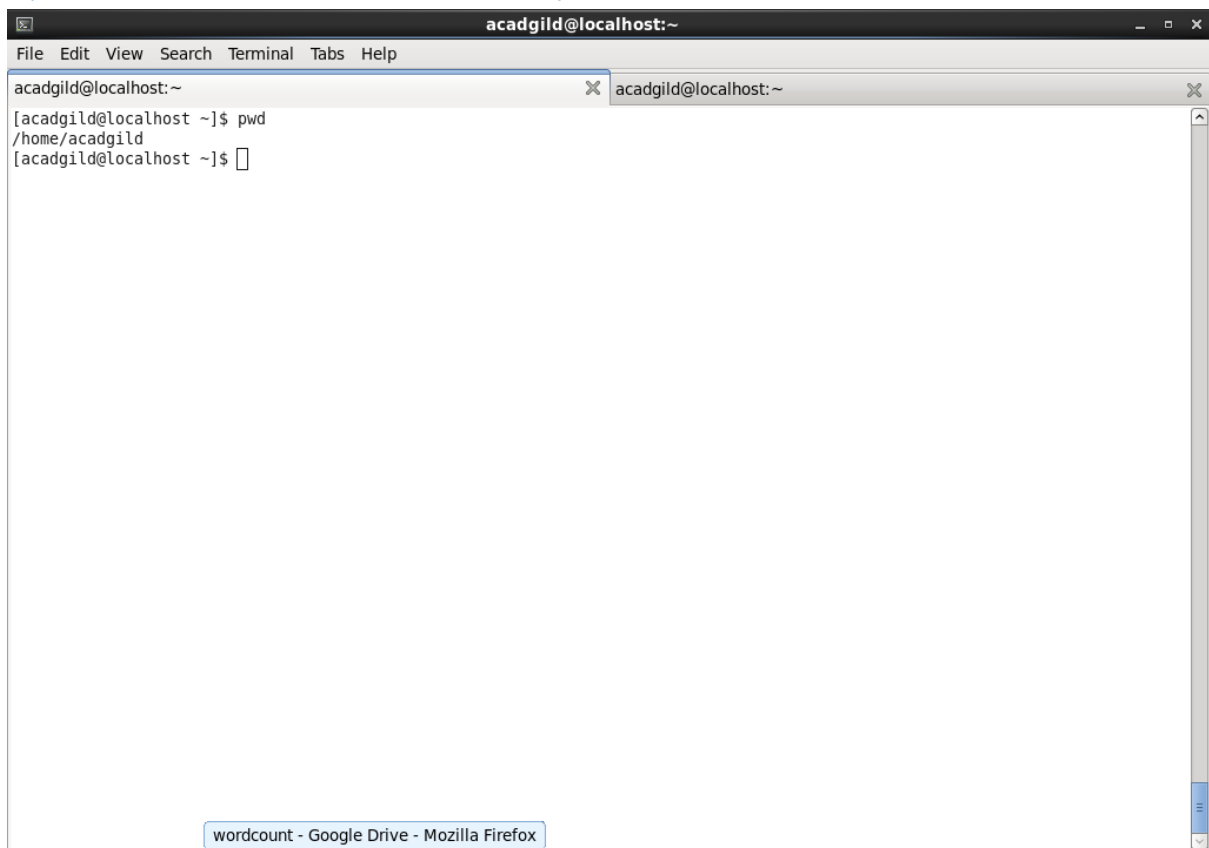
2) Run a JPS command to see if all Hadoop daemons are running.

A terminal window titled 'acadgild@localhost: ~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The terminal shows the command 'jps' being executed, resulting in a list of running processes: '21488 Jps', '20535 NameNode', '20664 DataNode', '21001 ResourceManager', '20843 SecondaryNameNode', and '21103 NodeManager'. A system message 'You have new mail in /var/spool/mail/acadgild' is also visible. The prompt '[acadgild@localhost ~]\$' is shown at the bottom.

```
acadgild@localhost: ~  
[acadgild@localhost ~]$ jps  
21488 Jps  
20535 NameNode  
20664 DataNode  
21001 ResourceManager  
20843 SecondaryNameNode  
21103 NodeManager  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

Jps stand java virtual machine process status tool and would check whether expected Hadoop process like name node ,data node ,secondary name node and yarn daemons like resource manager node manager are running or not

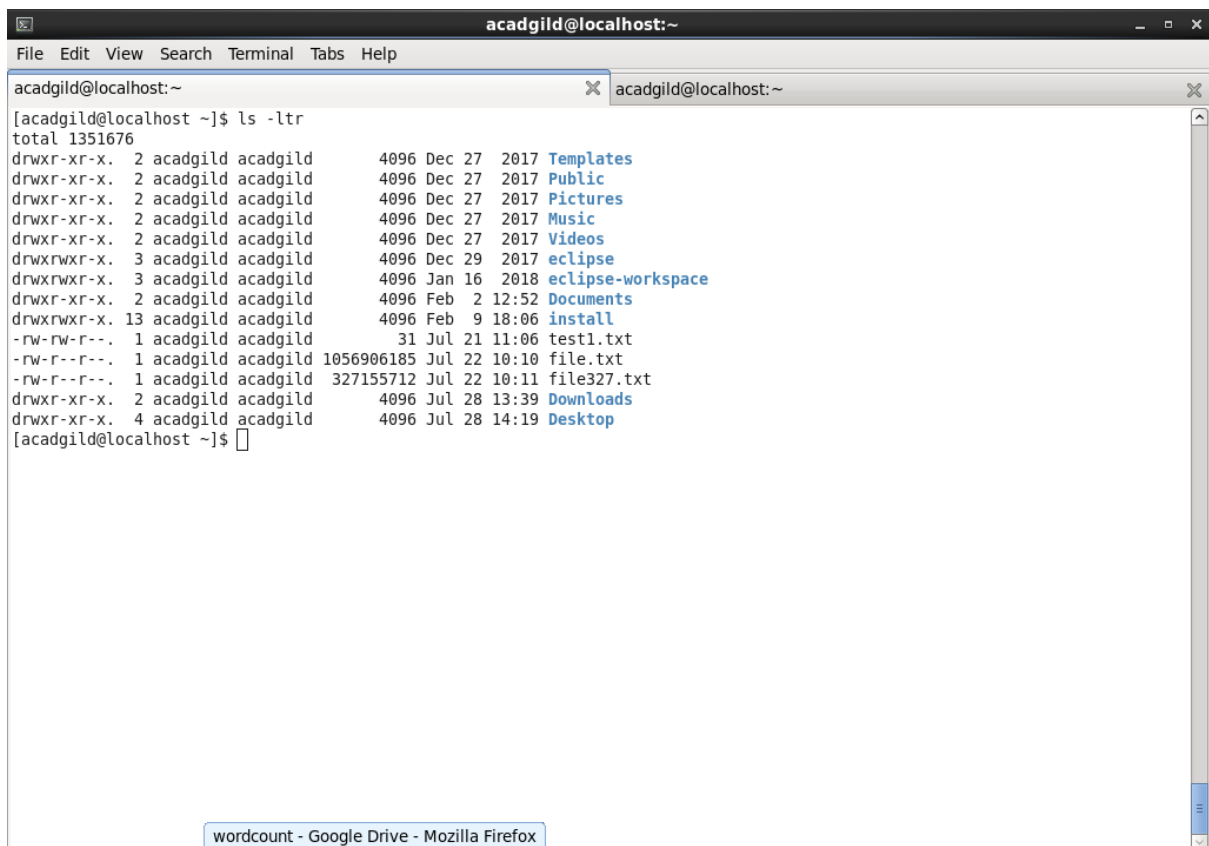
3) Run few Unix commands like pwd, ls -ls, etc.



A terminal window titled "acadgild@localhost:~" with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The terminal shows the command "pwd" being executed, resulting in the output "/home/acadgild". The prompt is "[acadgild@localhost ~]\$".

```
acadgild@localhost:~  
[acadgild@localhost ~]$ pwd  
/home/acadgild  
[acadgild@localhost ~]$
```

Pwd would tell the location of current directory



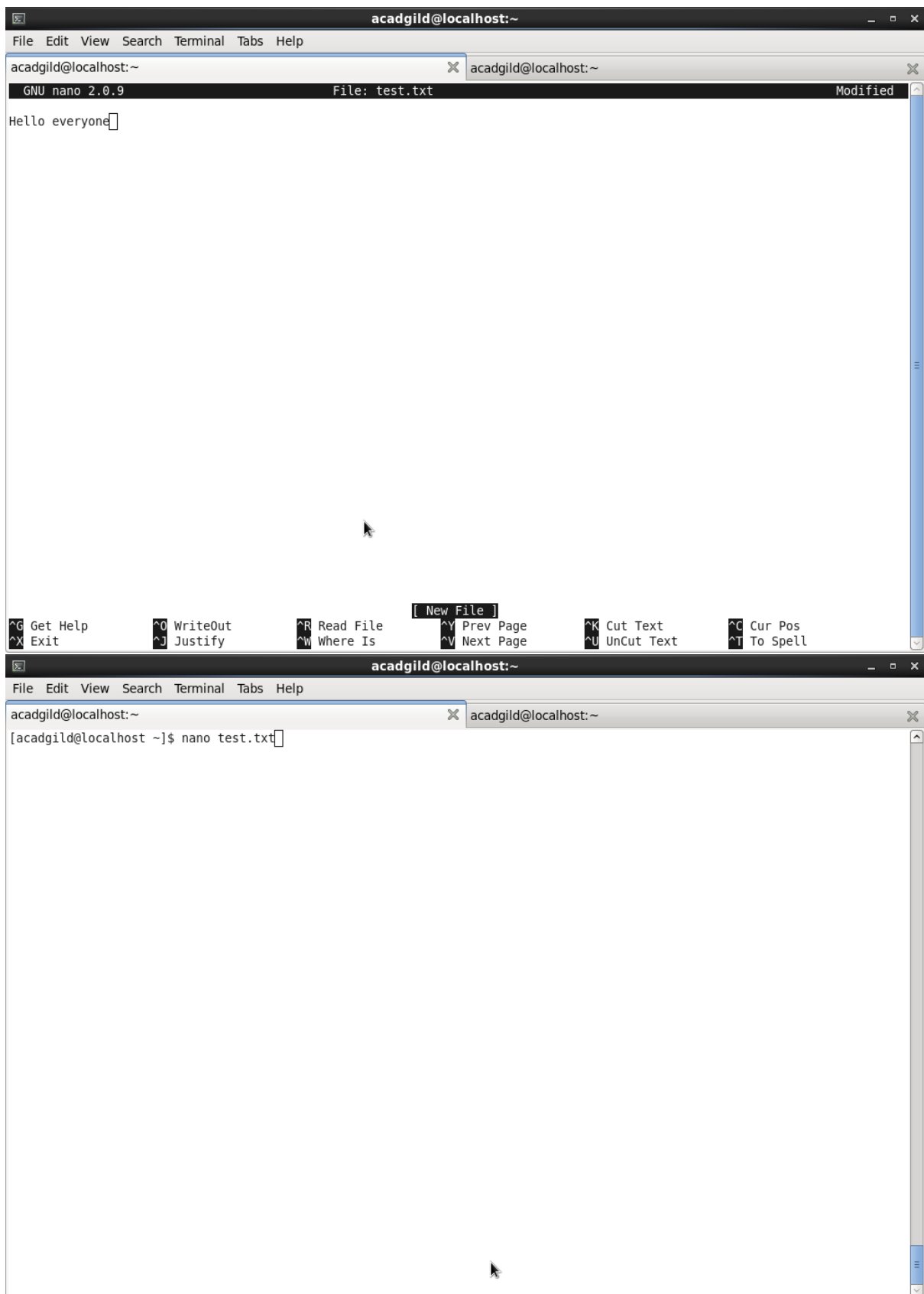
A terminal window titled "acadgild@localhost:~" with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The terminal shows the command "ls -ltr" being executed, displaying a detailed listing of files and directories in the current directory. The output includes permissions, owner, group, size, date, and filename for various items like Templates, Public, Pictures, Music, Videos, eclipse, eclipse-workspace, Documents, install, test1.txt, file.txt, file327.txt, Downloads, and Desktop.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ ls -ltr  
total 1351676  
drwxr-xr-x. 2 acadgild acadgild      4096 Dec 27 2017 Templates  
drwxr-xr-x. 2 acadgild acadgild      4096 Dec 27 2017 Public  
drwxr-xr-x. 2 acadgild acadgild      4096 Dec 27 2017 Pictures  
drwxr-xr-x. 2 acadgild acadgild      4096 Dec 27 2017 Music  
drwxr-xr-x. 2 acadgild acadgild      4096 Dec 27 2017 Videos  
drwxrwxr-x. 3 acadgild acadgild      4096 Dec 29 2017 eclipse  
drwxrwxr-x. 3 acadgild acadgild      4096 Jan 16 2018 eclipse-workspace  
drwxr-xr-x. 2 acadgild acadgild      4096 Feb  2 12:52 Documents  
drwxrwxr-x. 13 acadgild acadgild      4096 Feb  9 18:06 install  
-rw-rw-r--. 1 acadgild acadgild          31 Jul 21 11:06 test1.txt  
-rw-r--r--. 1 acadgild acadgild 1056906185 Jul 22 10:10 file.txt  
-rw-r--r--. 1 acadgild acadgild 327155712 Jul 22 10:11 file327.txt  
drwxr-xr-x. 2 acadgild acadgild      4096 Jul 28 13:39 Downloads  
drwxr-xr-x. 4 acadgild acadgild      4096 Jul 28 14:19 Desktop  
[acadgild@localhost ~]$
```

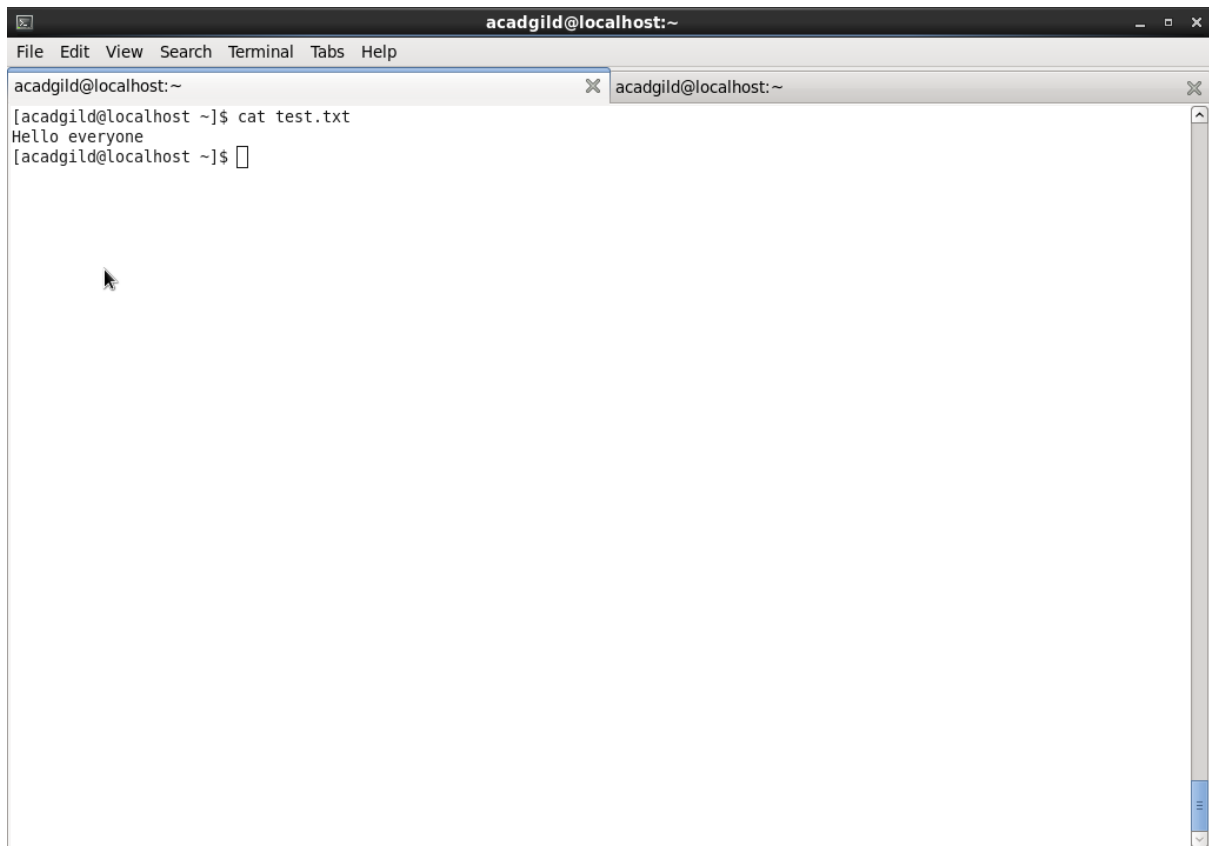
ls-ltr stand for long listing of files in that directory t stand for sorting by time and r stand for reverse order

4) Create a file from the terminal using nano editor (example: nano test.txt), and add

some content in it. Cat it to see if the content is saved.



Nano is a command editor of unix just like vi editor, it opens an editor , where just type and do a ctrl-X , this would save the content in that file

A screenshot of a terminal window titled 'acadgild@localhost:~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', 'Tabs', and 'Help'. Below the menu bar, there is a tab labeled 'acadgild@localhost:~'. The terminal content shows the prompt '[acadgild@localhost ~]\$' followed by the command 'cat test.txt'. The output of the command is 'Hello everyone'. The prompt then changes to '[acadgild@localhost ~]\$' with a cursor. A mouse cursor is visible in the terminal area.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ cat test.txt  
Hello everyone  
[acadgild@localhost ~]$
```

Cat command is used to view the content of file on terminal

5)Open the hdfs web page by typing localhost:50070 in the browser.
Check all the details of the HDFS.

Namenode information - Mozilla Firefox

Gmail

Namenode information

localhost:50070/dfshealth.html#tab-overview

Search

Hadoop

Overview

Datanodes

Snapshot

Startup Progress

Utilities

Overview 'localhost:8020' (active)

Started:	Fri Aug 03 00:17:51 IST 2018
Version:	2.6.5, re8c9fe0b4c252caf2ebf1464220599650f119997
Compiled:	2016-10-02T23:43Z by sjlee from branch-2.6.5
Cluster ID:	CID-7b3f9bd8-f34c-4fb8-87aa-f76b6dfbd809
Block Pool ID:	BP-437583619-127.0.0.1-1517555661954

Summary

Security is off.

Safemode is off.

50 files and directories, 32 blocks = 82 total filesystem object(s).

Heap Memory used 31.04 MB of 49.46 MB Heap Memory. Max Heap Memory is 966.69 MB.

Hadop File System

Browsing HDFS - Mozilla Firefox

Gmail

Browsing HDFS

localhost:50070/explorer.html#/

Search

Hadoop

Overview

Datanodes

Snapshot

Startup Progress

Utilities

Browse Directory

Go!

Permission	Owner	Group	Size	Replication	Block Size	Name
-rw-r--r--	acadgild	supergroup	1007.94 MB	1	128 MB	file.txt
-rw-r--r--	acadgild	supergroup	312 MB	1	128 MB	file327.txt
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	myoutput
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	output
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	sqoopout111
-rw-r--r--	acadgild	supergroup	31 B	1	128 MB	test1.txt
drwxrwx---	acadgild	supergroup	0 B	0	0 B	tmp
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	user