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

```
acadgild@localhost:~
 File Edit View Search Terminal Help
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/04/11 07:26:10 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadgild/install/hadoop/hadoop-2.
6.5/logs/hadoop-acadgild-namenode-localhost.localdomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/#adoop-2.
6.5/logs/hadoop-acadgild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/ha
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/04/11 07:27:06 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/
logs/yarn-acadgild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop
-2.6.5/logs/yarn-acadgild-nodemanager-localhost.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ■
```

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

```
[acadgild@localhost ~]$ jps
3776 NodeManager
3509 SecondaryNameNode
4181 Jps
3673 ResourceManager
3214 NameNode
3311 DataNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ■
```

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

Below are linux commands with an example. Share the screenshot of each command with the output:

Pwd: which tells where you are – in which directory, starting from the root (/)

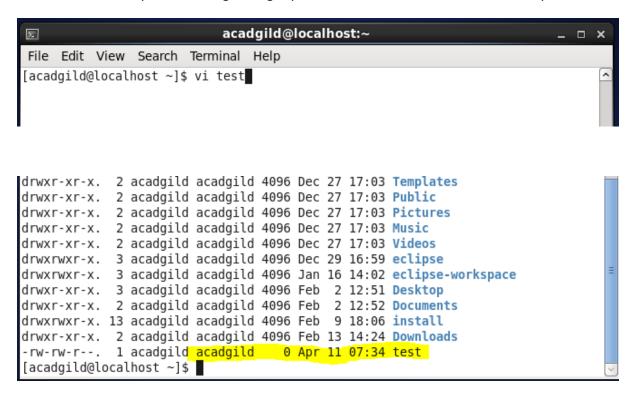
Example:

```
E acadgild@localhost:~ _ □ ×

File Edit View Search Terminal Help

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

Vi: vi is an interactive text editor which is display-oriented: the screen of your terminal acts as a window into the file you are editing. Changes you make to the file are reflected in what you see.



Ls -Irt: List all the files in the path

Touch: it will just create empty file

```
[acadgild@localhost ~]$ ls -lrt
total 44
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 3 acadgild acadgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
-rw-rw-r--. 1 acadgild acadgild 0 Apr 11 07:34 test
-rw-rw-r--. 1 acadgild acadgild 0 Apr 11 07:36 session
[acadgild@localhost ~]$
```

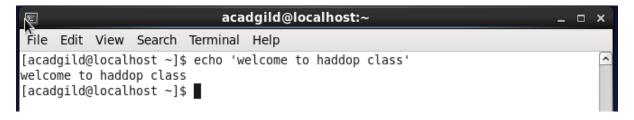
Mkdir: Short for "make directory", mkdir is used to create directories on a file system.

```
acadgild@localhost:~
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 File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ mkdir madhu
[acadgild@localhost ~]$ ls -lrt
total 48
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 3 acadgild acadgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
-rw-rw-r--. 1 acadgild acadgild
                                        0 Apr 11 07:34 test
-rw-rw-r--. 1 acadgild acadgild
                                        0 Apr 11 07:36 session
drwxrwxr-x. 2 acadgild acadgild 4096 Apr 11 07:38 madhu
[acadgild@localhost ~]$
```

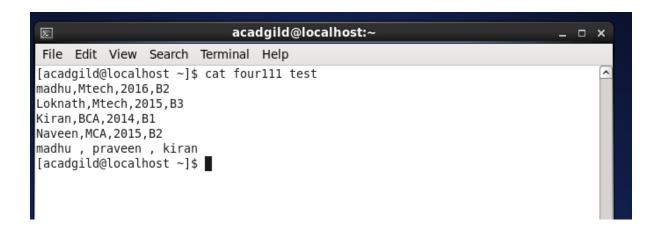
Rm : remove files or directories

```
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                                                                                    _ 🗆 🗙
 File Edit View Search Terminal Help
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
-rw-rw-r--. 1 acadgild acadgild
                                         0 Apr 11 07:34 test
-rw-rw-r--. 1 acadgild acadgild
                                         0 Apr 11 07:36 session
drwxrwxr-x. 2 acadgild acadgild 4096 Apr 11 07:38 madhu
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ rm test
[acadgild@localhost ~]$
[acadgild@localhost ~]$ ls -lrt
total 48
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 3 acadgild acadgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
-rw-rw-r--. 1 acadgild acadgild
                                        0 Apr 11 07:36 session
drwxrwxr-x. 2 acadgild acadgild 4096 Apr 11 07:38 madhu
[acadgild@localhost ~]$
```

Echo: displays a line of text



Cat: cat command allows us to create single or multiple files, view contain of file, concatenate files and redirect output in terminal or files.



Who: Display who is on the system.

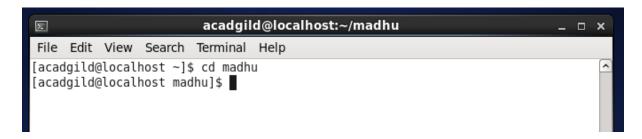
```
File Edit View Search Terminal Help

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

[acadgild@localhost ~]$ who
acadgild tty1 2018-04-11 07:21 (:0)
acadgild pts/0 2018-04-11 07:24 (:0.0)

[acadgild@localhost ~]$ ■
```

Cd: used to change directory



Date: displays date with timestamp

```
E acadgild@localhost:~ _ □ ×

File Edit View Search Terminal Help

[acadgild@localhost ~]$ date

Wed Apr 11 07:42:50 IST 2018

[acadgild@localhost ~]$ ■
```

Cal: used to display calendar

Mv: mv renames file SOURCE to DEST, or moves the SOURCE file (or files) to DIRECTORY.

```
File Edit View Search Terminal Help

[acadgild@localhost ~]$ mv session madhu
[acadgild@localhost ~]$ cd madhu
[acadgild@localhost madhu]$ ls -lrt
total 0
-rw-rw-r--. 1 acadgild acadgild 0 Apr 11 07:36 session
[acadgild@localhost madhu]$
```

Cp: used to copy files

```
Σ
                                 acadgild@localhost:~
                                                                                        _ 🗆 X
 File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost madhu]$ cp session /home/acadgild
[acadgild@localhost madhu]$ cd ..
[acadgild@localhost ~]$ ls -lrt
total 48
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 3 acadgild acadgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
drwxrwxr-x. 2 acadgild acadgild 4096 Apr 11 07:45 madhu
-rw-rw-r--. 1 acadgild acadgild 0 Apr 11 07:48 session
[acadgild@localhost ~]$
```

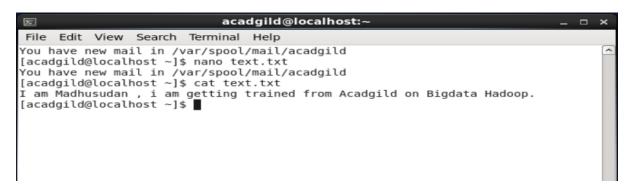
Which: which command is used to find the location of a program.

```
acadgild@localhost:~ _ □ ×

File Edit View Search Terminal Help

[acadgild@localhost ~]$ which test
/usr/bin/test
[acadgild@localhost ~]$ □
```

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.



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

