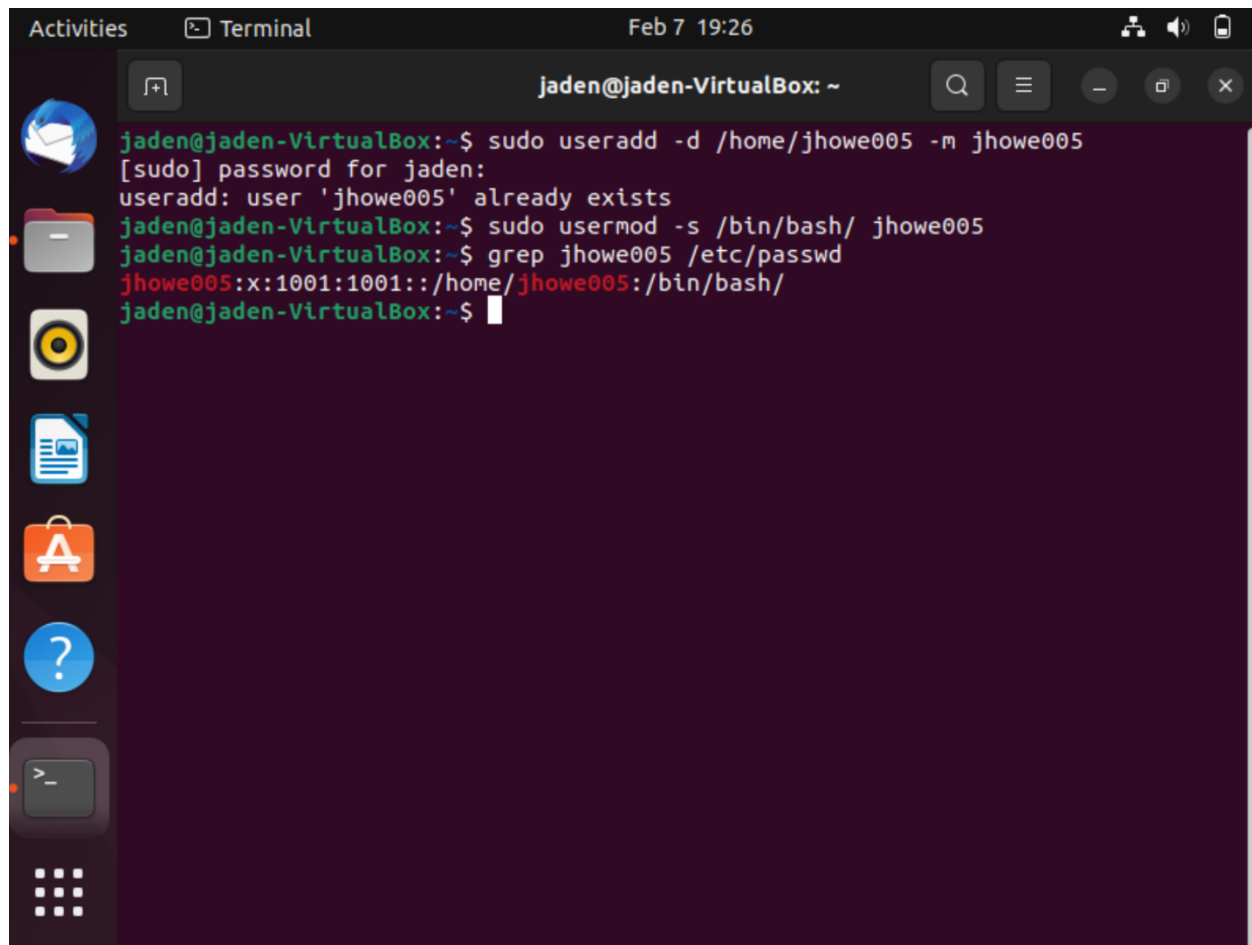
A terminal window titled 'jaden@jaden-VirtualBox: ~' with a search bar and window controls. The terminal shows the output of 'id jaden' and 'sudo tail /etc/passwd'. The 'id' command shows the user 'jaden' with uid 1000, gid 1000, and several groups. The 'tail' command shows the last few lines of the /etc/passwd file, including system users and the regular user 'jaden'.

```
jaden@jaden-VirtualBox:~$ id jaden
uid=1000(jaden) gid=1000(jaden) groups=1000(jaden),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),134(lxd),135(sambashare)
jaden@jaden-VirtualBox:~$ sudo tail /etc/passwd
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:121:128:/:/var/lib/saned:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:123:130:/:/var/lib/geoclue:/usr/sbin/nologin
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:125:65534:/:/run/gnome-initial-setup:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
jaden:x:1000:1000:Jaden,,,:/home/jaden:/bin/bash
jaden@jaden-VirtualBox:~$
```

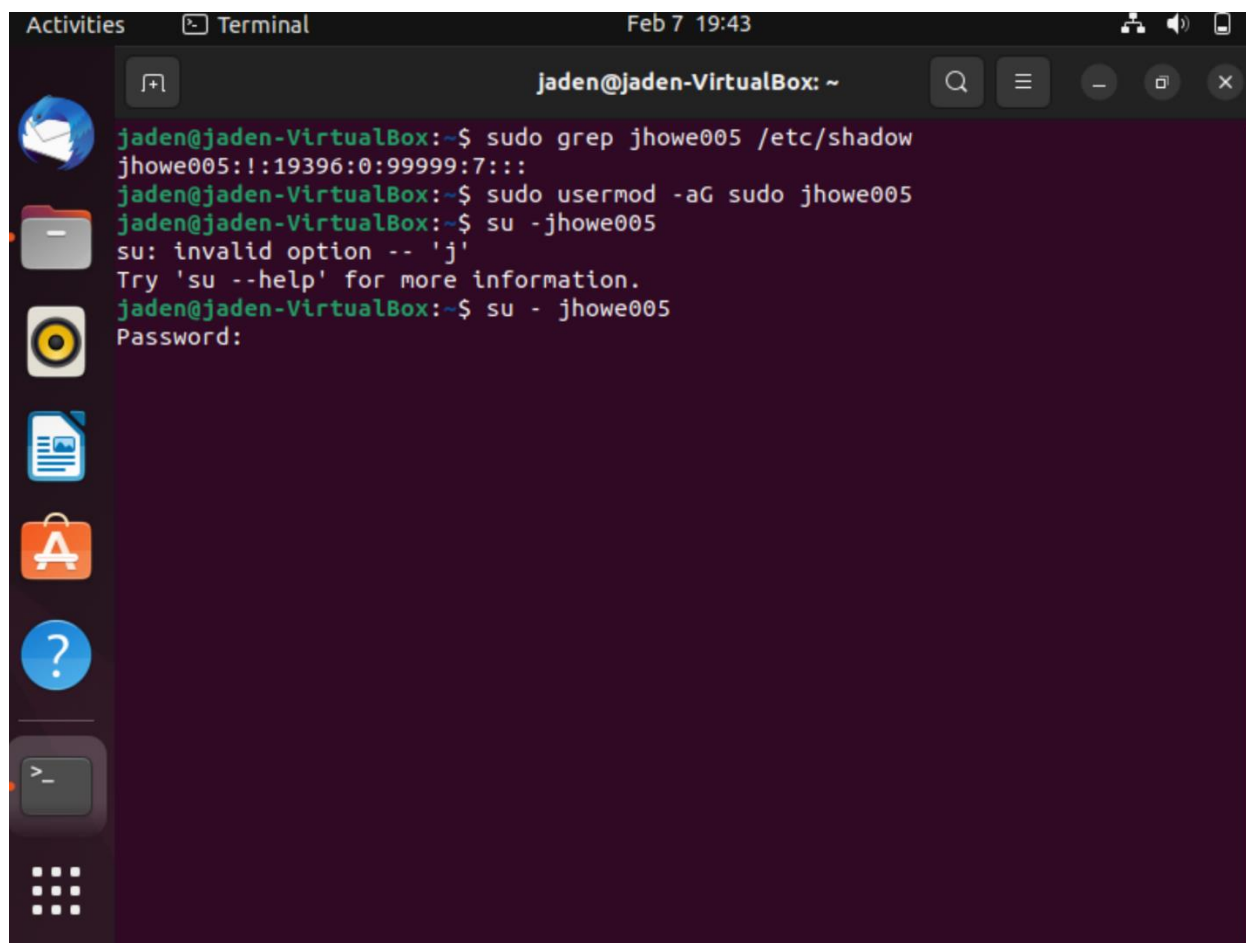
TASK A

Steps 1-2: Used “id” to search up the account information and then “sudo tail” to look up the password information(I forgot to use grep in the command)

A terminal window titled "Terminal" with a date and time of "Feb 7 19:26". The prompt is "jaden@jaden-VirtualBox: ~". The user enters the command "sudo useradd -d /home/jhowe005 -m jhowe005". The system prompts for a password for "jaden", which is entered. Then, the user enters "sudo usermod -s /bin/bash/ jhowe005". Finally, the user enters "grep jhowe005 /etc/passwd", which outputs "jhowe005:x:1001:1001::/home/jhowe005:/bin/bash/".

```
jaden@jaden-VirtualBox:~$ sudo useradd -d /home/jhowe005 -m jhowe005
[sudo] password for jaden:
useradd: user 'jhowe005' already exists
jaden@jaden-VirtualBox:~$ sudo usermod -s /bin/bash/ jhowe005
jaden@jaden-VirtualBox:~$ grep jhowe005 /etc/passwd
jhowe005:x:1001:1001::/home/jhowe005:/bin/bash/
jaden@jaden-VirtualBox:~$
```

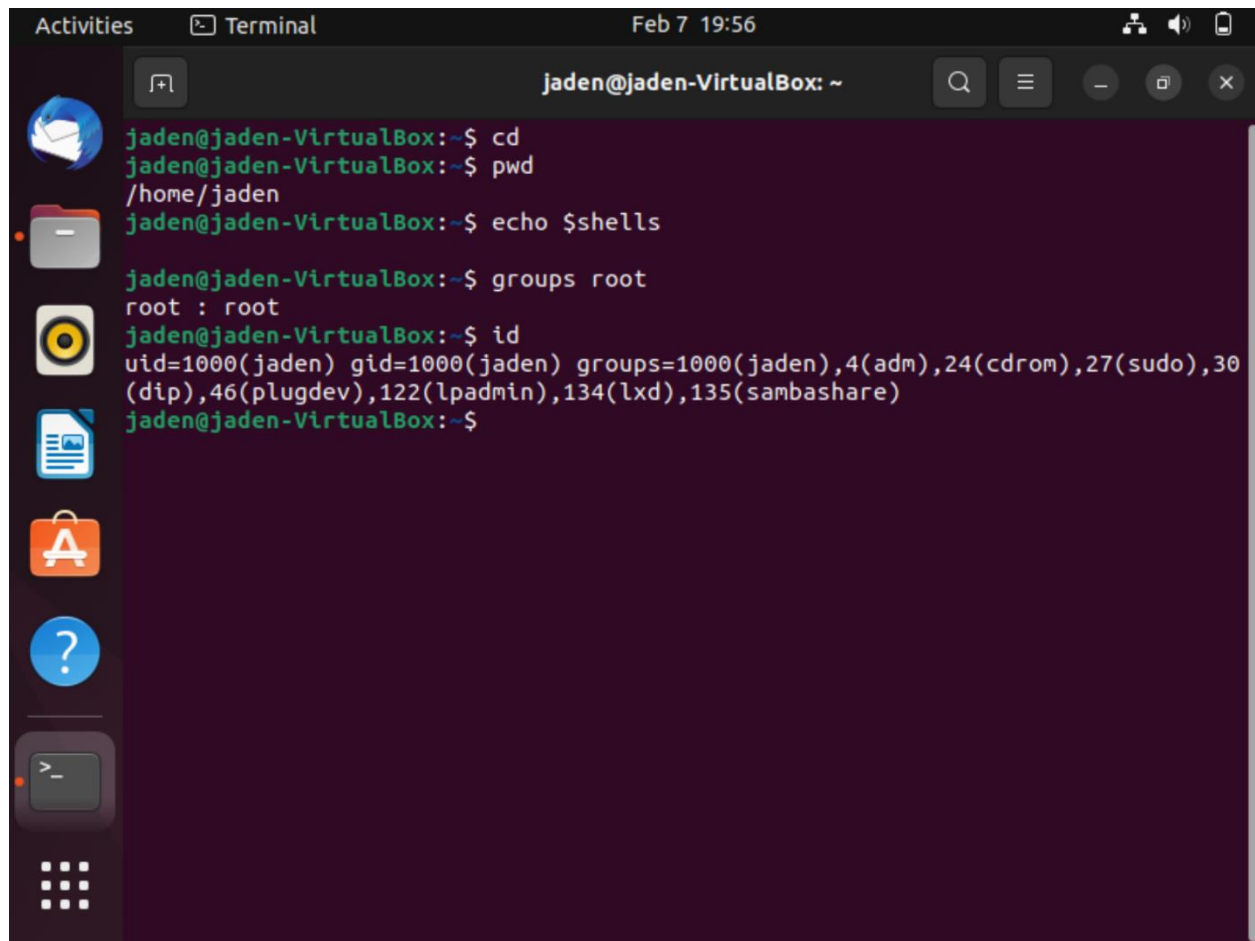
Steps 3-5: I already did the command to make the user but to do it you do “sudo useradd -d /home/jhowe005 -m jhowe005 to make both a new directory and a new user after making a password. Then “sudo usermod -s /bin/bash/ jhowe005” to set bash as the default, and then “grep jhowe005 /etc/passwd” shows where it is located

A terminal window titled "jaden@jaden-VirtualBox: ~" with a search bar and window controls. The terminal shows the following commands and output:

```
jaden@jaden-VirtualBox:~$ sudo grep jhowe005 /etc/shadow
jhowe005:!:19396:0:99999:7:::
jaden@jaden-VirtualBox:~$ sudo usermod -aG sudo jhowe005
jaden@jaden-VirtualBox:~$ su -jhowe005
su: invalid option -- 'j'
Try 'su --help' for more information.
jaden@jaden-VirtualBox:~$ su - jhowe005
Password:
```

Steps 6-8: “sudo grep jhowe005 /etc/shadow” shows the encrypted and aging passwd for jhowe005. Sudo usermod -aG sudo jhowe005 adds it to the sudo group without override, and then then “su – jhowe005” switches the user.

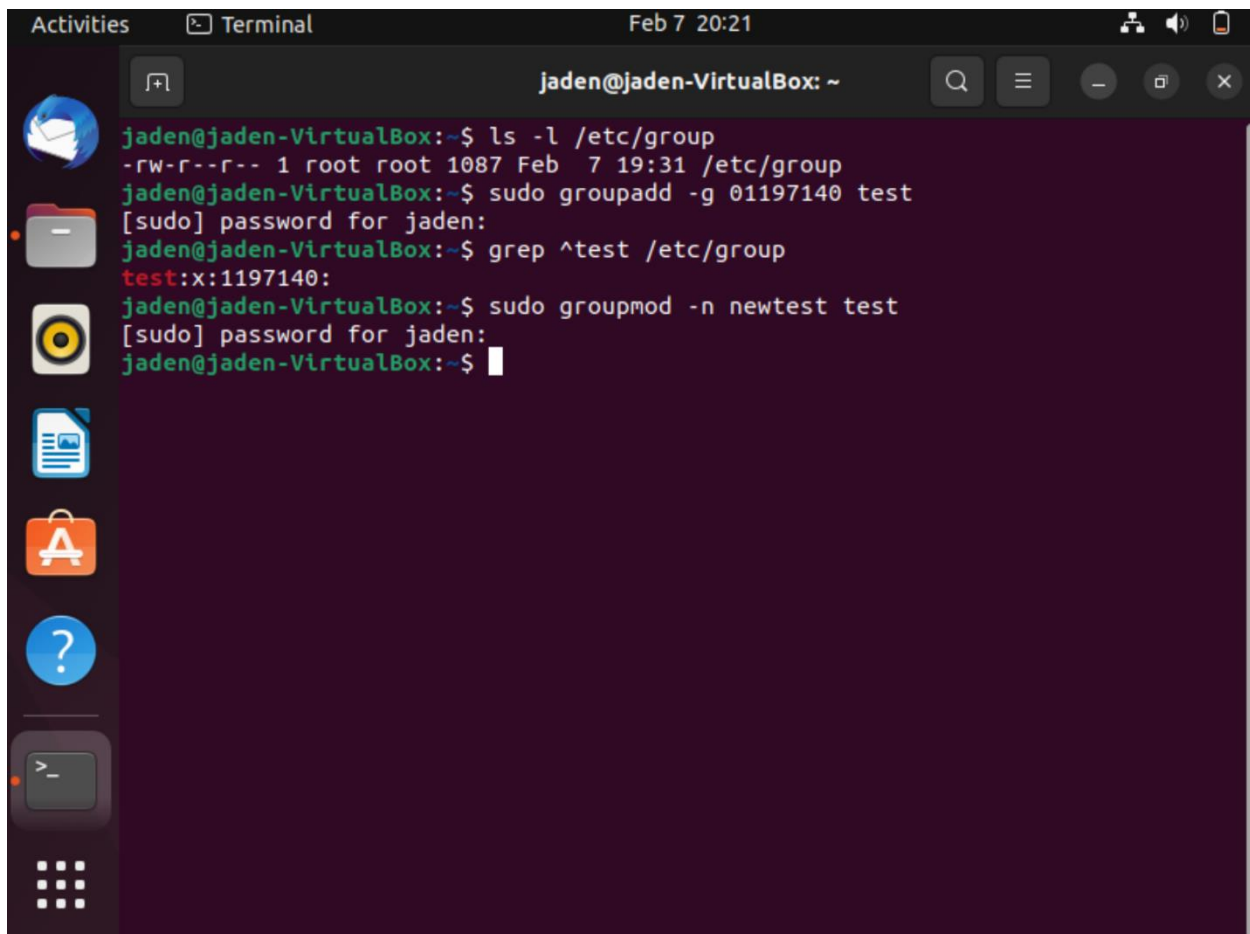
TASK B

A terminal window titled "jaden@jaden-VirtualBox: ~" with a dark purple background. The window shows a series of commands and their outputs. On the left side of the terminal, there is a vertical sidebar with several icons: a blue circle with a white envelope, a folder icon, a yellow circle with a black dot, a blue document icon, an orange shopping bag icon, a blue circle with a white question mark, and a terminal icon. The terminal text is as follows:

```
jaden@jaden-VirtualBox:~$ cd
jaden@jaden-VirtualBox:~$ pwd
/home/jaden
jaden@jaden-VirtualBox:~$ echo $shells

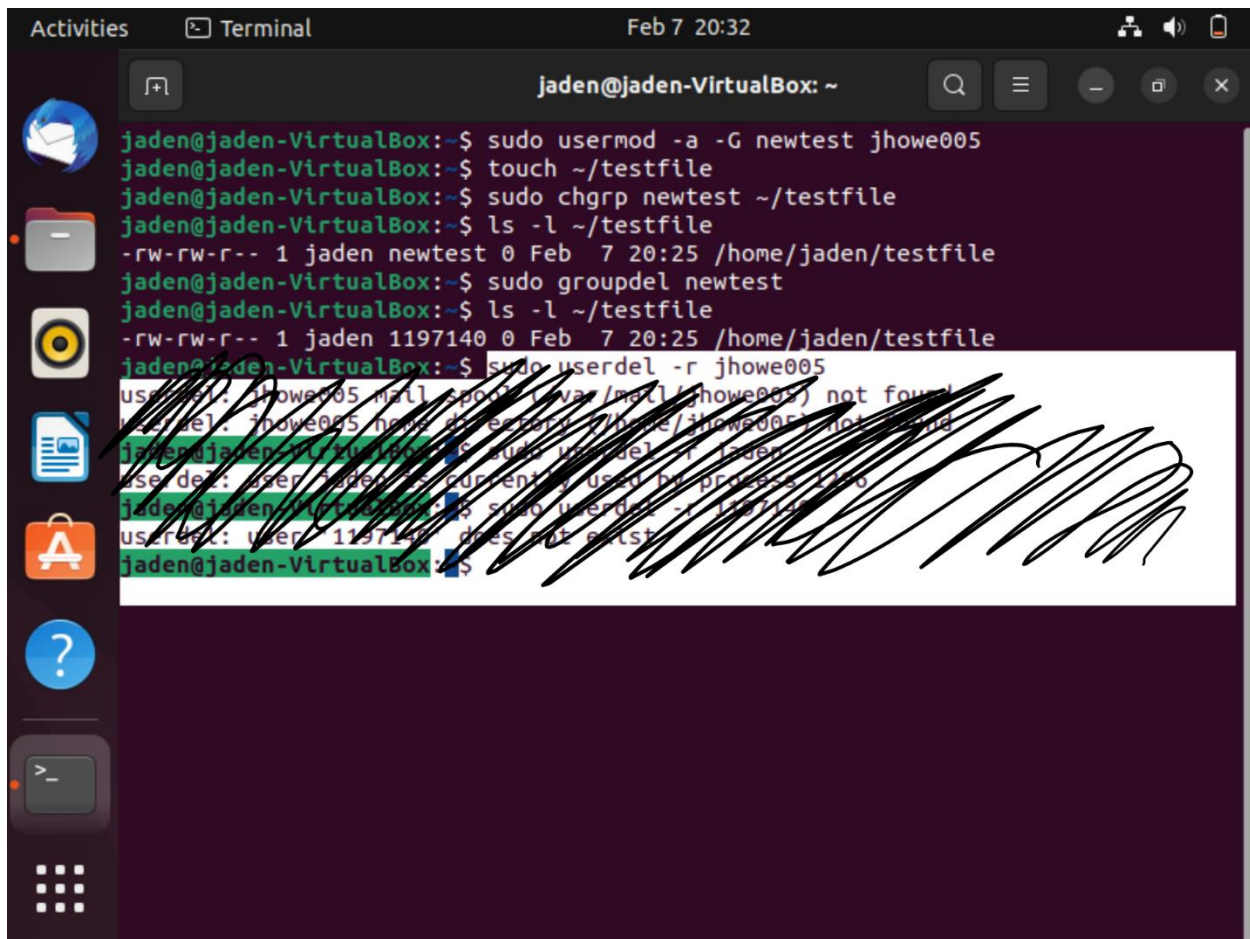
jaden@jaden-VirtualBox:~$ groups root
root : root
jaden@jaden-VirtualBox:~$ id
uid=1000(jaden) gid=1000(jaden) groups=1000(jaden),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),134(lxd),135(sambashare)
jaden@jaden-VirtualBox:~$
```

Steps 1-3: `cd` changes the directory and I did `pwd` just to double check, but then `echo $shells` is used to see your current shell that you are using(I wasn't sure as to why it was blank). "`groups root`" is used to display the members of the root account.

A terminal window titled "jaden@jaden-VirtualBox: ~" with a search icon, a menu icon, and window control buttons. The terminal shows a series of commands and their outputs. On the left side of the window, there is a vertical dock with icons for a mail client, a file manager, a music player, a document viewer, an application store, a help icon, and a terminal icon.

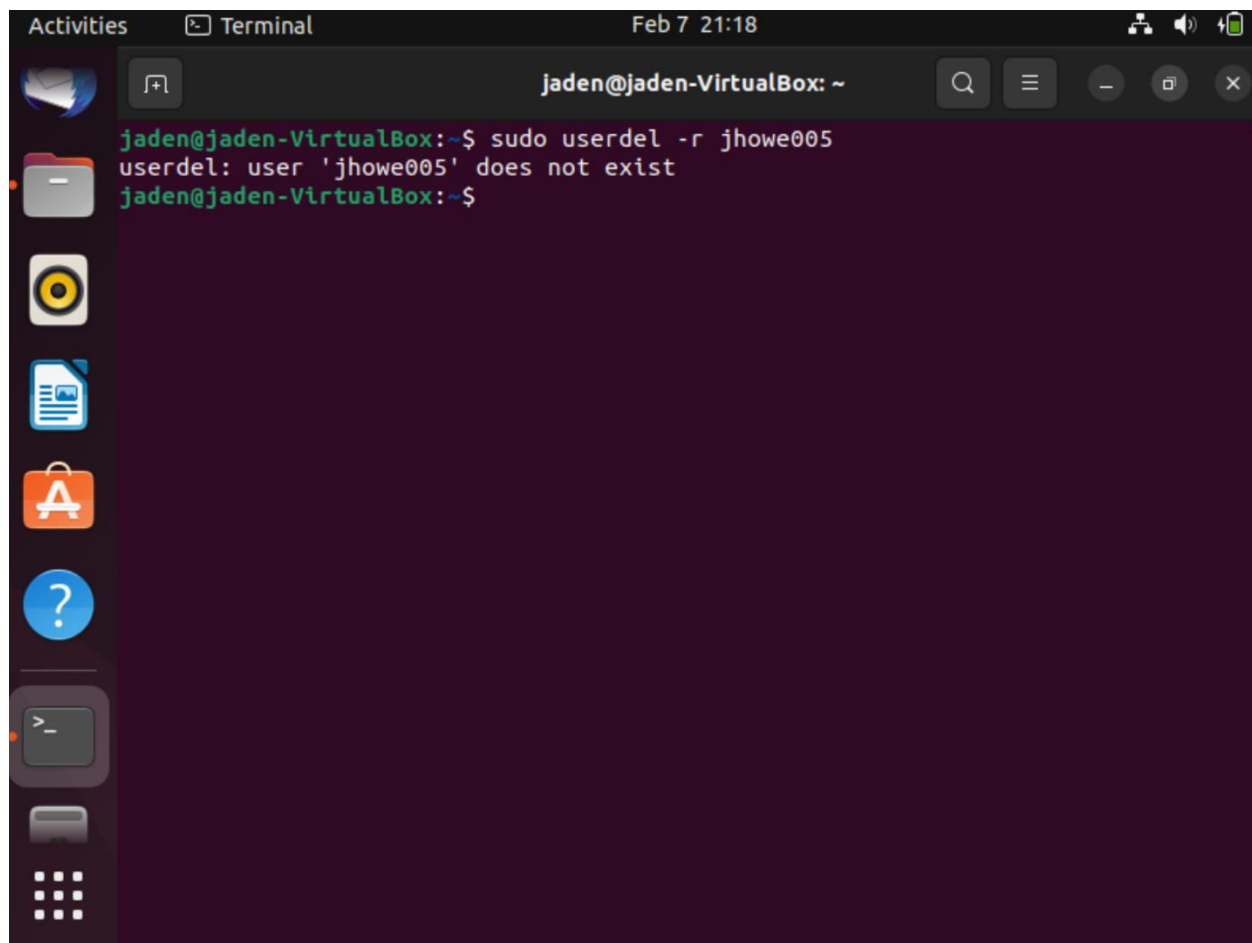
```
jaden@jaden-VirtualBox:~$ ls -l /etc/group
-rw-r--r-- 1 root root 1087 Feb  7 19:31 /etc/group
jaden@jaden-VirtualBox:~$ sudo groupadd -g 01197140 test
[sudo] password for jaden:
jaden@jaden-VirtualBox:~$ grep ^test /etc/group
test:x:1197140:
jaden@jaden-VirtualBox:~$ sudo groupmod -n newtest test
[sudo] password for jaden:
jaden@jaden-VirtualBox:~$
```

Steps 4-7: “ls -l /etc/group” lists the different owners. Using “sudo groupadd -g 01197140 test” to add the user. Using the “^test “ with the /etc/group shows what is within the “test” and using “groupmod -n newtest test” changes the name of it



```
jaden@jaden-VirtualBox:~$ sudo usermod -a -G newtest jhowe005
jaden@jaden-VirtualBox:~$ touch ~/testfile
jaden@jaden-VirtualBox:~$ sudo chgrp newtest ~/testfile
jaden@jaden-VirtualBox:~$ ls -l ~/testfile
-rw-rw-r-- 1 jaden newtest 0 Feb  7 20:25 /home/jaden/testfile
jaden@jaden-VirtualBox:~$ sudo groupdel newtest
jaden@jaden-VirtualBox:~$ ls -l ~/testfile
-rw-rw-r-- 1 jaden 1197140 0 Feb  7 20:25 /home/jaden/testfile
jaden@jaden-VirtualBox:~$ sudo userdel -r jhowe005
userdel: jhowe005 mail spool (/var/mail/jhowe005) not found
userdel: jhowe005 home directory (/home/jhowe005) not found
jaden@jaden-VirtualBox:~$ sudo userdel -r jaden
userdel: user jaden is currently used by process 1250
jaden@jaden-VirtualBox:~$ sudo userdel -r 1197140
userdel: user 1197140 does not exist
jaden@jaden-VirtualBox:~$
```

Steps 8-11: “sudo usermod -a -G newtest jhowe005” adds the current account into the second member. “touch ~/testfile” adds the new file in the home directory. “ls -l ~/testfile” shows everything in it, and doing it the second time after deleting newtest just makes the space blank.

A screenshot of a Linux terminal window. The window title is "Terminal" and the date/time is "Feb 7 21:18". The prompt is "jaden@jaden-VirtualBox: ~". The user has entered the command "sudo userdel -r jhowe005". The output is "userdel: user 'jhowe005' does not exist". The prompt is now "jaden@jaden-VirtualBox:~\$". On the left side of the terminal, there is a vertical dock with several application icons: a file manager, a web browser, a terminal, and a grid of icons.

```
jaden@jaden-VirtualBox:~$ sudo userdel -r jhowe005
userdel: user 'jhowe005' does not exist
jaden@jaden-VirtualBox:~$
```

Step 12: Using “sudo userdel -r “ removes the user