

CYSE 270: Linux System for Cybersecurity

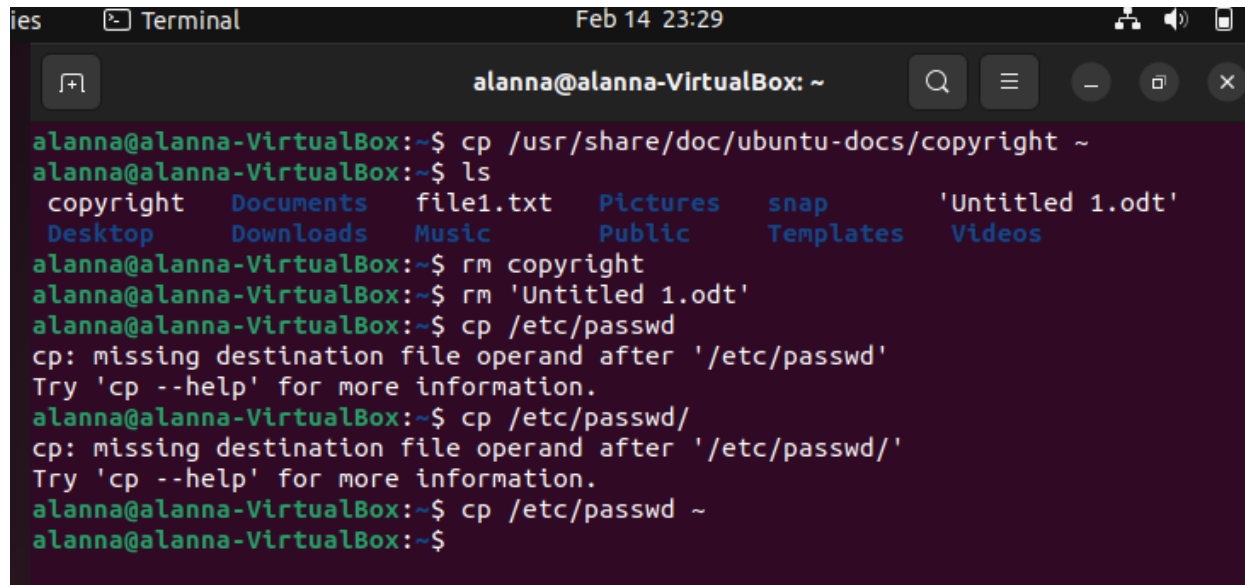
Assignment: Lab 3 – VI Editor

Task: vi Practice on Ubuntu / Kali Linux (20 * 5 = 100 points)

Open the terminal in your VM, then complete the following tasks. **Please take the screenshots of all the necessary commands that you execute for each step.**

NOTE: You may write the correct vi editor commands, if screenshot is not applicable. Please see the note added to some steps below.

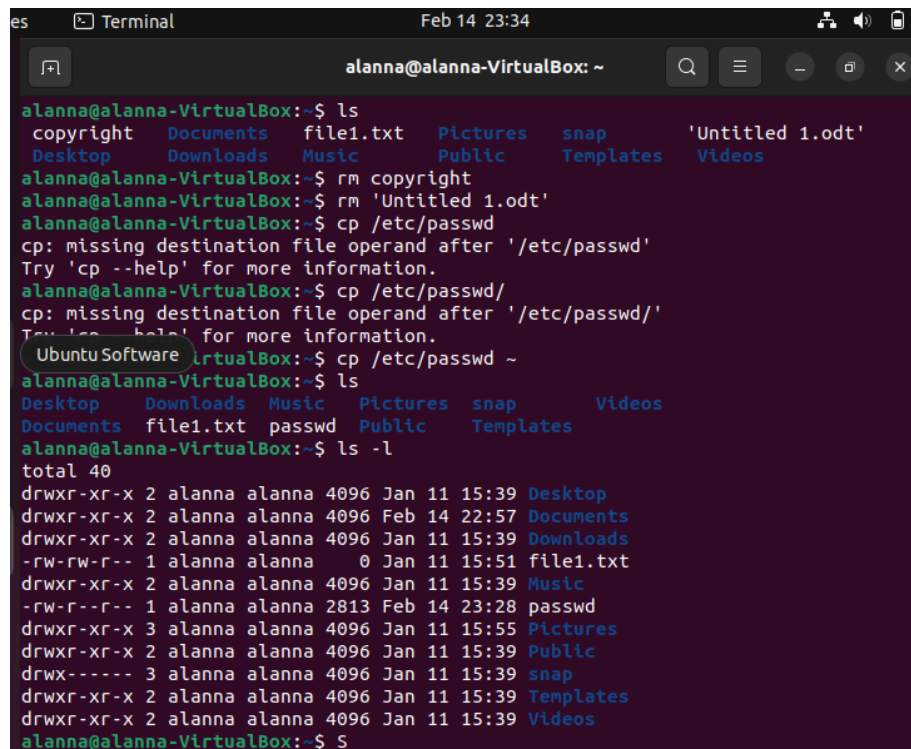
1. Copy file `/usr/share/doc/git/copyright` to your home directory. **NOTE:** You can use any text file that is large if you cannot find this file on yours]

A terminal window titled 'Terminal' with the date 'Feb 14 23:29' and the user 'alanna@alanna-VirtualBox: ~'. The terminal shows the following commands and output:

```
alanna@alanna-VirtualBox:~$ cp /usr/share/doc/ubuntu-docs/copyright ~
alanna@alanna-VirtualBox:~$ ls
copyright  Documents  file1.txt  Pictures  snap      'Untitled 1.odt'
Desktop    Downloads  Music      Public    Templates Videos
alanna@alanna-VirtualBox:~$ rm copyright
alanna@alanna-VirtualBox:~$ rm 'Untitled 1.odt'
alanna@alanna-VirtualBox:~$ cp /etc/passwd
cp: missing destination file operand after '/etc/passwd'
Try 'cp --help' for more information.
alanna@alanna-VirtualBox:~$ cp /etc/passwd/
cp: missing destination file operand after '/etc/passwd/'
Try 'cp --help' for more information.
alanna@alanna-VirtualBox:~$ cp /etc/passwd ~
alanna@alanna-VirtualBox:~$
```

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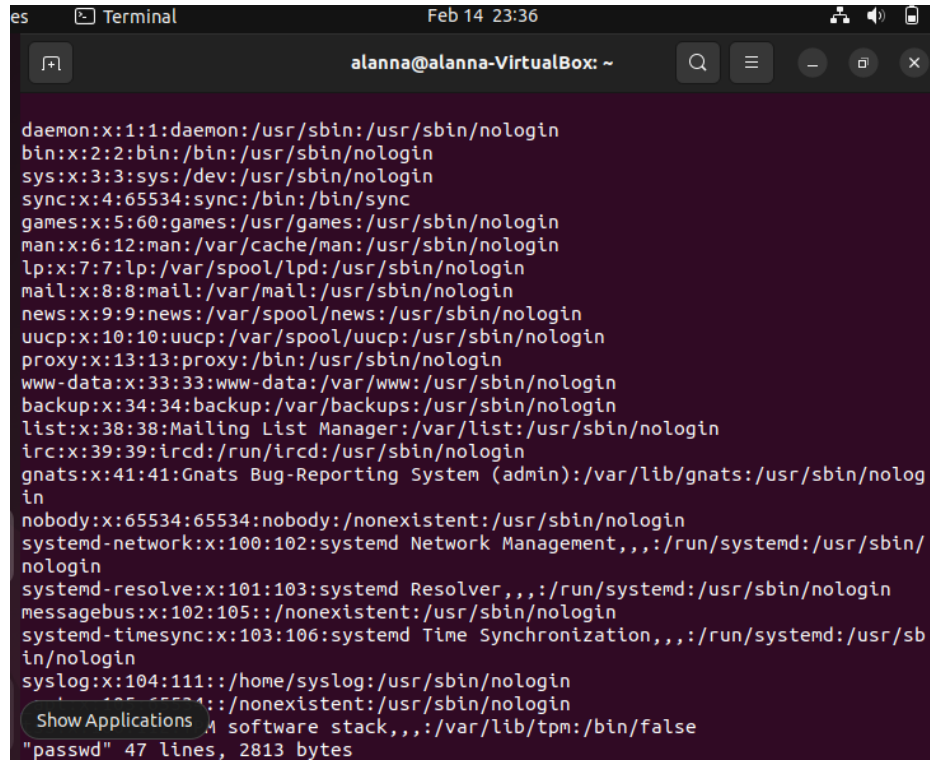
2. Perform a long list in your current directory using the correct command.

A terminal window titled 'Terminal' with the date 'Feb 14 23:34' and the user 'alanna@alanna-VirtualBox: ~'. The terminal shows the following commands and output:

```
alanna@alanna-VirtualBox:~$ ls
copyright  Documents  file1.txt  Pictures  snap      'Untitled 1.odt'
Desktop    Downloads  Music      Public    Templates Videos
alanna@alanna-VirtualBox:~$ rm copyright
alanna@alanna-VirtualBox:~$ rm 'Untitled 1.odt'
alanna@alanna-VirtualBox:~$ cp /etc/passwd
cp: missing destination file operand after '/etc/passwd'
Try 'cp --help' for more information.
alanna@alanna-VirtualBox:~$ cp /etc/passwd/
cp: missing destination file operand after '/etc/passwd/'
Try 'cp --help' for more information.
alanna@alanna-VirtualBox:~$ cp /etc/passwd ~
alanna@alanna-VirtualBox:~$ ls
Desktop    Downloads  Music      Pictures  snap      Videos
Documents  file1.txt  passwd     Public    Templates
alanna@alanna-VirtualBox:~$ ls -l
total 40
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Desktop
drwxr-xr-x 2 alanna alanna 4096 Feb 14 22:57 Documents
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Downloads
-rw-r--r-- 1 alanna alanna 0 Jan 11 15:51 file1.txt
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Music
-rw-r--r-- 1 alanna alanna 2813 Feb 14 23:28 passwd
drwxr-xr-x 3 alanna alanna 4096 Jan 11 15:55 Pictures
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Public
drwx----- 3 alanna alanna 4096 Jan 11 15:39 snap
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Templates
drwxr-xr-x 2 alanna alanna 4096 Jan 11 15:39 Videos
alanna@alanna-VirtualBox:~$ s
```

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3. Open the file **copyright** (or any file that is large enough with multiple lines of text) in a vi-editor using **vi** command.



```
es Terminal Feb 14 23:36 alanna@alanna-VirtualBox: ~

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
"passwd" 47 lines, 2813 bytes
```

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4. Move to line 15, then **insert** your MIDAS ID **in the same line** with the following format:

*****XXXX*****(replace XXXX with your own MIDAS name).

```
ies Terminal Feb 14 23:54
alanna@alanna-VirtualBox: ~

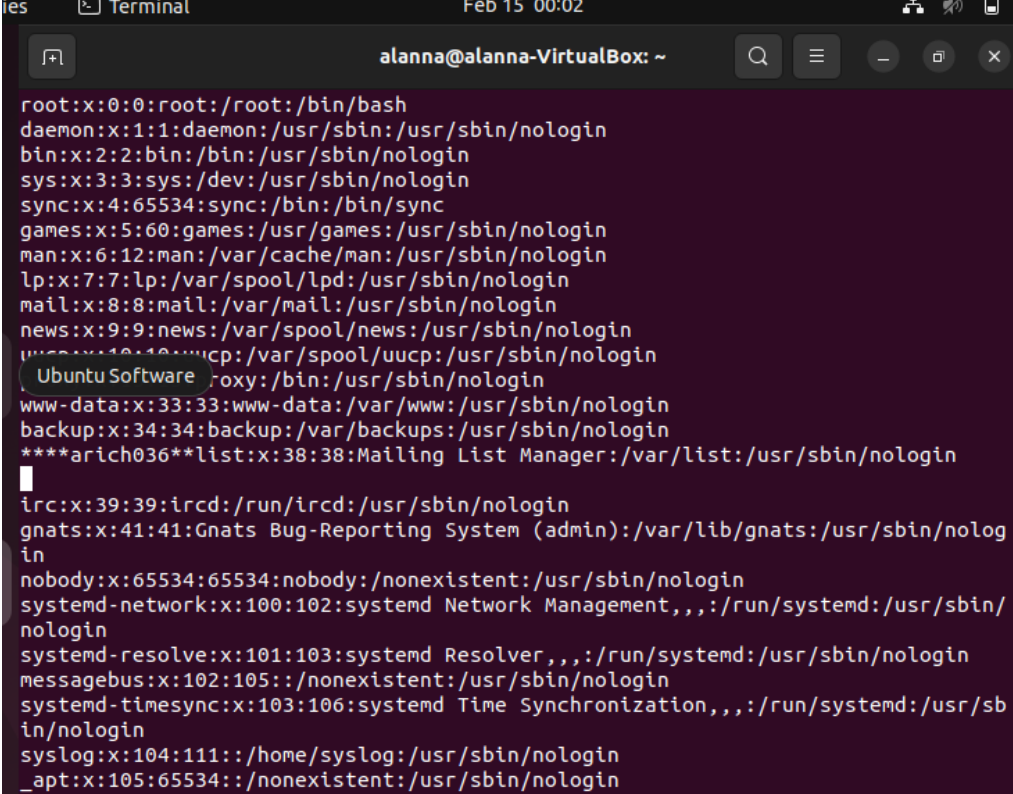
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
:15
```

```
ies Terminal Feb 15 00:00
alanna@alanna-VirtualBox: ~

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
****arich036**list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
```

5. Return to the command mode (using ESC key).

6. Open a new line **below the current line** using correct command (please refer to slides with the list of commands used in vi editor)

A terminal window titled 'Terminal' with the date 'Feb 15 00:02' and the user 'alanna@alanna-VirtualBox: ~'. The terminal displays a list of system users in a vi editor. The list includes users like root, daemon, bin, sys, sync, games, man, lp, mail, news, uucp, www-data, backup, arich036, irc, gnats, nobody, systemd-network, systemd-resolve, messagebus, systemd-timesync, syslog, and _apt. The cursor is positioned at the end of the line for 'arich036'.

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
arich036:x:11:11:arich036:/var/lib/arp:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
****arich036**list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
```

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7. Return to the command mode.
8. Use command to Insert **“****XXXX ****”** **five** times.

```
es Terminal Feb 15 00:12
alanna@alanna-VirtualBox: ~
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
LibreOffice Writer /spool/lpd:/usr/sbin/nologin
Mail: /var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
****arich036**list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
****arich036*****arich036*****arich036*****arich036****
*
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/home/syslog:/usr/sbin/nologin
```

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9. Use command to return the **top** of the file. [Please write the correct command for this step]

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10. **Move forward three sentences.** [Please write the correct command for this step]

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11. **Move forward four words.** [Please write the correct command for this step]

a 4w

12. Search for the word **example**. [Please take the screenshot for this step to submit]

```
es Terminal Feb 22 23:13
alanna@alanna-VirtualBox: ~
x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
E486: Pattern not found: example
```

a

```
es Terminal Feb 22 23:16
alanna@alanna-VirtualBox: ~
x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
/sbin
```

b

13. Continue to the next occurrence of the search term **example**. [Please take the screenshot for this step to submit]


```
Terminal Feb 22 23:22 alanna@alanna-VirtualBox: ~
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
```

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14.Delete the current word, **example**. [Please take the screenshot for this step to submit]

```
Terminal Feb 22 23:25 alanna@alanna-VirtualBox: ~
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
```

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15.Delete the current line. [Please write the correct command for this step]

a **dd**

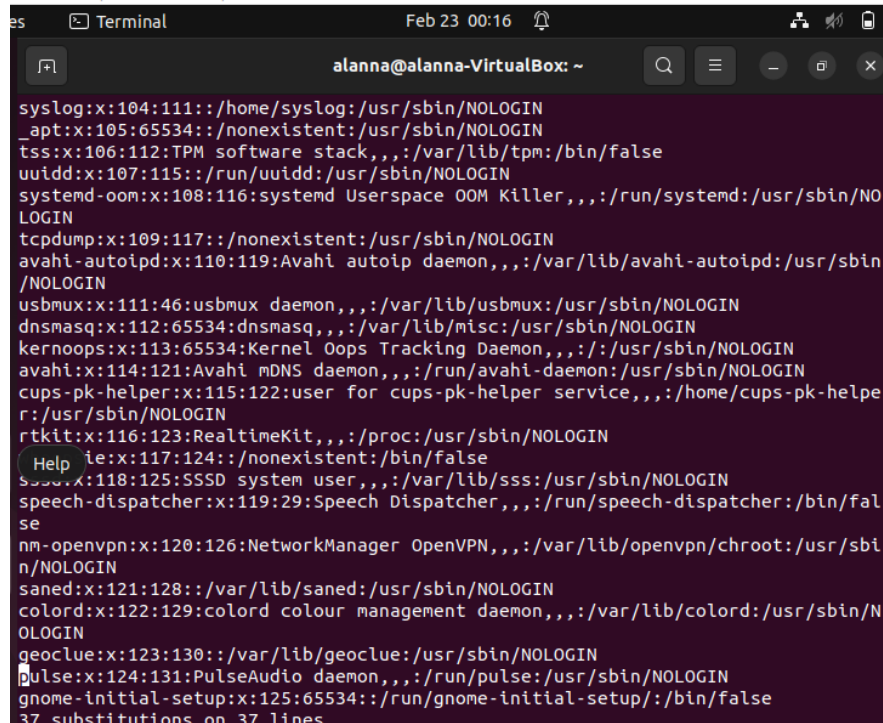
16. Use command to jump to the end of the file.

a **]]**

17. Copy line 16 and paste the text at the end of the document. [Please write the correct command for this step]

a **yG**

18. Replace all occurrences of **http** with **HTTP** throughout the document. [Please take the screenshot for this step to submit]



```
es Terminal Feb 23 00:16 alanna@alanna-VirtualBox: ~
syslog:x:104:111::/home/syslog:/usr/sbin/NOLOGIN
_apt:x:105:65534::/nonexistent:/usr/sbin/NOLOGIN
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uidd:x:107:115::/run/uidd:/usr/sbin/NOLOGIN
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/NOLOGIN
tcpdump:x:109:117::/nonexistent:/usr/sbin/NOLOGIN
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/NOLOGIN
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/NOLOGIN
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/NOLOGIN
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/NOLOGIN
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/NOLOGIN
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/NOLOGIN
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/NOLOGIN
sie:x:117:124::/nonexistent:/bin/false
sss:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/NOLOGIN
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
37 substitutions on 37 lines
```

19. Rename the file **copyright** to **copyright_cyse270** [Please take the screenshot for this step and submit]

```
es Terminal Feb 23 00:22 alanna@alanna-VirtualBox: ~
/usr/share/doc/xserver-xorg-video-qxl/copyright
/usr/share/doc/xserver-xorg-video-radeon/copyright
/usr/share/doc/xserver-xorg-video-vesa/copyright
/usr/share/doc/xserver-xorg-video-vmware/copyright
/usr/share/doc/xwayland/copyright
/usr/share/doc/xxd/copyright
/usr/share/doc/xz-utils/copyright
/usr/share/doc/yaru-theme-gnome-shell/copyright
/usr/share/doc/yaru-theme-gtk/copyright
/usr/share/doc/yaru-theme-icon/copyright
/usr/share/doc/yaru-theme-sound/copyright
/usr/share/doc/yelp/copyright
/usr/share/doc/yelp-xsl/copyright
/usr/share/doc/zenity/copyright
/usr/share/doc/zenity-common/copyright
/usr/share/doc/zerofree/copyright
/usr/share/doc/zip/copyright
/usr/share/doc/zlib1g/copyright
/usr/share/doc/zstd/copyright
alanna@alanna-VirtualBox:~$ sudo apt install mlocate
[sudo] password for alanna:
E: dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.
alanna@alanna-VirtualBox:~$ vi passwd
alanna@alanna-VirtualBox:~$ mv passwd passwd_270
alanna@alanna-VirtualBox:~$ ls
Desktop Downloads Music Pictures snap Videos
Documents file1.txt passwd_270 Public Templates
alanna@alanna-VirtualBox:~$
```

a

20. Save and quit the document. Then **submit all the screenshots** of previous steps along with the command name on canvas, in word or pdf file..

Please note:

You can use one screenshot to cover multiple steps. Make sure you highlight and annotate important information.