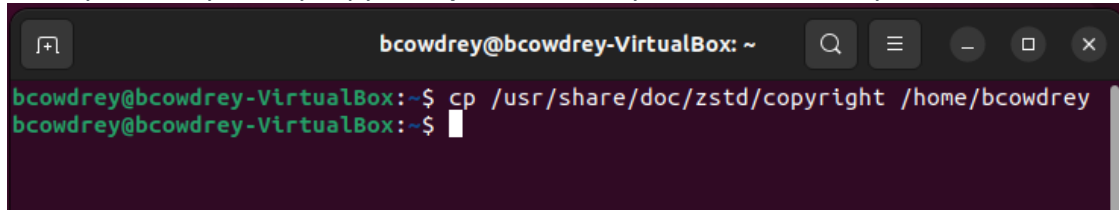


Task: vi Practice on Ubuntu / Kali Linux (20 * 5 = 100 points)

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 and submit the screenshots with their step number in a word or pdf file.

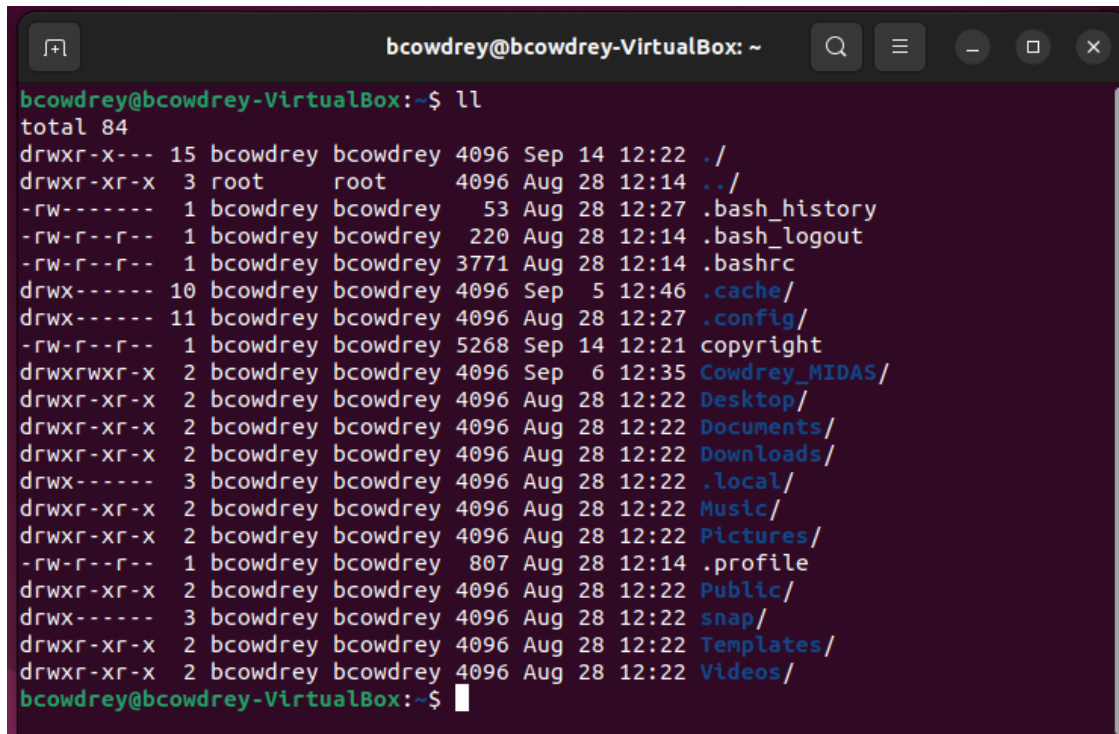
NOTE: You may write the correct vi editor commands, if screenshot is not applicable. Please see the note added to some steps below.

1. Copy file `/usr/share/doc/zstd/copyright` to your home directory. [NOTE: You can use any text file that is large if you cannot find this file on yours. For example: If you are not able to locate copyright file in your VM, you may copy `/etc/passwd` file to your home directory to work for lab-3.



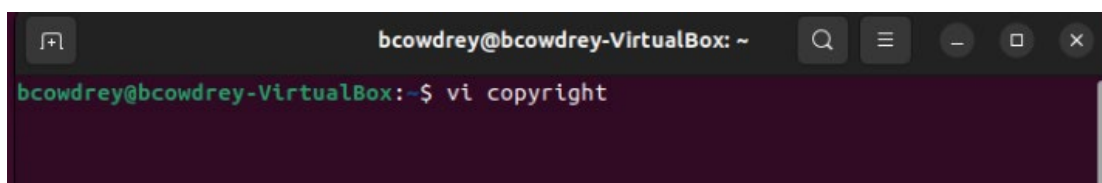
```
bcowdrey@bcowdrey-VirtualBox: ~  
bcowdrey@bcowdrey-VirtualBox:~$ cp /usr/share/doc/zstd/copyright /home/bcowdrey  
bcowdrey@bcowdrey-VirtualBox:~$
```

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



```
bcowdrey@bcowdrey-VirtualBox:~$ ll  
total 84  
drwxr-xr-x 15 bcowdrey bcowdrey 4096 Sep 14 12:22 ./  
drwxr-xr-x  3 root      root      4096 Aug 28 12:14 ../  
-rw-r--r--  1 bcowdrey bcowdrey   53 Aug 28 12:27 .bash_history  
-rw-r--r--  1 bcowdrey bcowdrey  220 Aug 28 12:14 .bash_logout  
-rw-r--r--  1 bcowdrey bcowdrey 3771 Aug 28 12:14 .bashrc  
drwxr-xr-x 10 bcowdrey bcowdrey 4096 Sep  5 12:46 .cache/  
drwxr-xr-x 11 bcowdrey bcowdrey 4096 Aug 28 12:27 .config/  
-rw-r--r--  1 bcowdrey bcowdrey 5268 Sep 14 12:21 copyright  
drwxrwxr-x  2 bcowdrey bcowdrey 4096 Sep  6 12:35 Cowdrey_MIDAS/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Desktop/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Documents/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Downloads/  
drwxr-xr-x  3 bcowdrey bcowdrey 4096 Aug 28 12:22 .local/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Music/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Pictures/  
-rw-r--r--  1 bcowdrey bcowdrey  807 Aug 28 12:14 .profile  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Public/  
drwxr-xr-x  3 bcowdrey bcowdrey 4096 Aug 28 12:22 snap/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Templates/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Videos/  
bcowdrey@bcowdrey-VirtualBox:~$
```

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

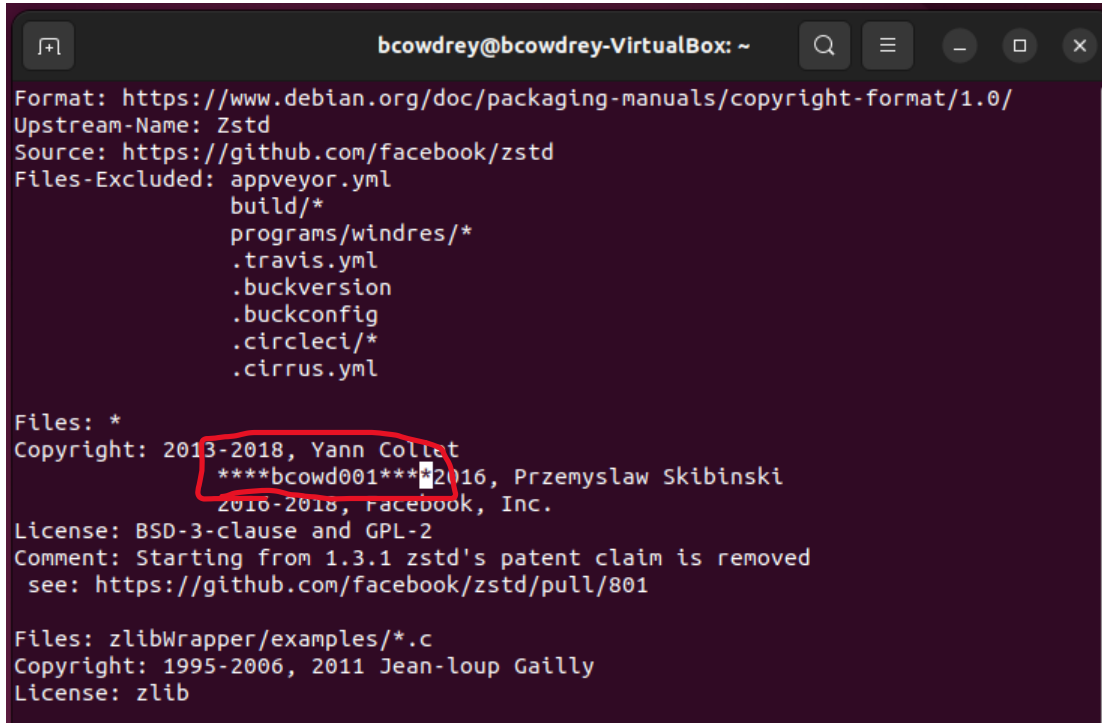


```
bcowdrey@bcowdrey-VirtualBox: ~  
bcowdrey@bcowdrey-VirtualBox:~$ vi copyright
```

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).

I used the command 15G to go to line 15



```
bcowdrey@bcowdrey-VirtualBox: ~  
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: Zstd  
Source: https://github.com/facebook/zstd  
Files-Excluded: appveyor.yml  
                 build/*  
                 programs/windres/*  
                 .travis.yml  
                 .buckversion  
                 .buckconfig  
                 .circleci/*  
                 .cirrus.yml  
  
Files: *  
Copyright: 2013-2018, Yann Collet  
          ****bcowd001****2016, Przemyslaw Skibinski  
          2016-2018, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
Comment: Starting from 1.3.1 zstd's patent claim is removed  
        see: https://github.com/facebook/zstd/pull/801  
  
Files: zlibWrapper/examples/*.c  
Copyright: 1995-2006, 2011 Jean-loup Gailly  
License: zlib
```

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)

I typed o to create a new line under the current line.

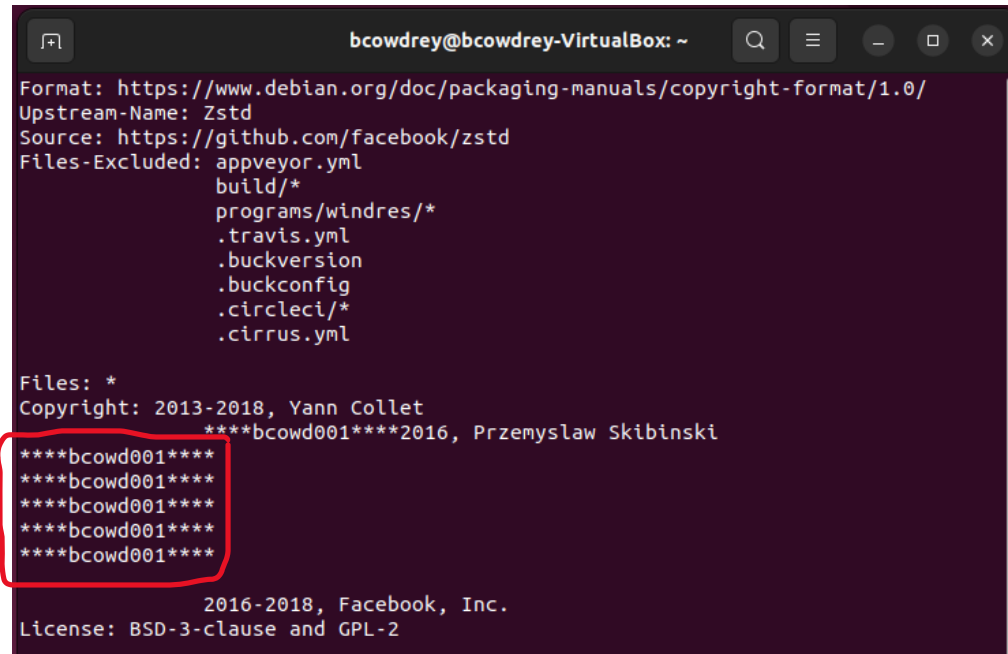


```
bcowdrey@bcowdrey-VirtualBox: ~  
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: Zstd  
Source: https://github.com/facebook/zstd  
Files-Excluded: appveyor.yml  
                 build/*  
                 programs/windres/*  
                 .travis.yml  
                 .buckversion  
                 .buckconfig  
                 .circleci/*  
                 .cirrus.yml  
  
Files: *  
Copyright: 2013-2018, Yann Collet  
          ****bcowd001****2016, Przemyslaw Skibinski  
          2016-2018, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
Comment: Starting from 1.3.1 zstd's patent claim is removed  
        see: https://github.com/facebook/zstd/pull/801  
  
Files: zlibWrapper/examples/*.c  
Copyright: 1995-2006, 2011 Jean-loup Gailly
```

7.) Return to the command mode.

8.) Use command to Insert “****XXXX ****” **five** times.

I used the 5i command to insert my midas id 5 times



```
bcowdrey@bcowdrey-VirtualBox: ~  
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: Zstd  
Source: https://github.com/facebook/zstd  
Files-Excluded: appveyor.yml  
                build/*  
                programs/windres/*  
                .travis.yml  
                .buckversion  
                .buckconfig  
                .circleci/*  
                .cirrus.yml  
  
Files: *  
Copyright: 2013-2018, Yann Collet  
          ****bcowd001****2016, Przemysław Skibinski  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
  
          2016-2018, Facebook, Inc.  
License: BSD-3-clause and GPL-2
```

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

[[Top of the page

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

3) move forward three sentences

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

4w move forward words

12.) Search for the word example or any word existing in the document that you are using for lab-3.
[Please take the screenshot for this step to submit]

I used /example to search the document

```
bcowdrey@bcowdrey-VirtualBox: ~  
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: Zstd  
Source: https://github.com/facebook/zstd  
Files-Excluded: appveyor.yml  
                build/*  
                programs/windres/*  
                .travis.yml  
                .buckversion  
                .buckconfig  
                .circleci/*  
                .cirrus.yml  
  
Files: *  
Copyright: 2013-2018, Yann Collet  
          ****bcowd001****2016, Przemyslaw Skibinski  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
          ****bcowd001****  
  
          2016-2018, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
/example
```

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

n to go to the next searched word

```
bcowdrey@bcowdrey-VirtualBox: ~  
claim that you wrote the original software. If you use this software  
in a product, an acknowledgement in the product documentation would be  
appreciated but is not required.  
2. Altered source versions must be plainly marked as such, and must not be  
misrepresented as being the original software.  
3. This notice may not be removed or altered from any source distribution.  
  
Files: lib/dictBuilder/divsufsort.*  
Copyright: 2003-2008, Yuta Mori  
License: Expat  
  
Files: examples/*  
Copyright: 2016-present, Yann Collet, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
  
Files: debian/*  
Copyright: 2015-2016 Kevin Murray <spam@kdmurray.id.au>  
License: Expat  
  
License: Expat  
Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including
```

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

dw deletes word after cursor

```
bcowdrey@bcowdrey-VirtualBox: ~  
claim that you wrote the original software. If you use this software  
in a product, an acknowledgement in the product documentation would be  
appreciated but is not required.  
2. Altered source versions must be plainly marked as such, and must not be  
misrepresented as being the original software.  
3. This notice may not be removed or altered from any source distribution.  
  
Files: lib/dictBuilder/divsufsort.*  
Copyright: 2003-2008, Yuta Mori  
License: Expat  
Files: /*  
Copyright: 2016-present, Yann Collet, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
  
Files: debian/*  
Copyright: 2015-2016 Kevin Murray <spam@kdmurray.id.au>  
License: Expat  
  
License: Expat  
Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including
```

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

dd deletes entire line

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

]] or G moves to the last line of the file

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

yG to copy the current line to the bottom of the document.

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

I used :%s/http/HTTP to replace all instances of http in the document.

```
bcowdrey@bcowdrey-VirtualBox: ~  
Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:  
* Redistributions of source code must retain the above copyright  
  notice, this list of conditions and the following disclaimer.  
* Redistributions in binary form must reproduce the above copyright  
  notice, this list of conditions and the following disclaimer in the  
  documentation and/or other materials provided with the distribution.  
* Neither the name of cereal nor the  
  names of its contributors may be used to endorse or promote products  
  derived from this software without specific prior written permission.  
.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL RANDOLPH VOORHIES OR SHANE GRANT BE LIABLE FOR ANY  
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND  
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
:~$ curl -s http://http://
```

```

    .buckversion
    .buckconfig
    .circleci/*
    .cirrus.yml

Files: *
Copyright: 2013-2018, Yann Collet
          2016, Przemyslaw Skibinski
          2016-2018, Facebook, Inc.
License: BSD-3-clause and GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
        see: HTTPS://github.com/facebook/zstd/pull/801

Files: zlibWrapper/examples/*.c
       LibreOffice Writer 2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibWrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

License: zlib
This software is provided 'as-is', without any express or implied
3 substitutions on 3 lines

```

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

```
bcowdrey@bcowdrey-VirtualBox: ~  
Format: HTTPS://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: Zstd  
Source: HTTPS://github.com/facebook/zstd  
Files-Excluded: appveyor.yml  
                build/*  
                programs/windres/*  
                .travis.yml  
                .buckversion  
                .buckconfig  
                .circleci/*  
                .cirrus.yml  
  
Files: *  
Copyright: 2013-2018, Yann Collet  
          2016, Przemyslaw Skibinski  
          2016-2018, Facebook, Inc.  
License: BSD-3-clause and GPL-2  
Comment: Starting from 1.3.1 zstd's patent claim is removed  
        see: HTTPS://github.com/facebook/zstd/pull/801  
  
Files: zlibWrapper/examples/*.c  
Copyright: 1995-2006, 2011 Jean-loup Gailly  
License: zlib  
:!mv copyright copyright cyse270
```

```
bcowdrey@bcowdrey-VirtualBox: ~  
Press ENTER or type command to continue  
bcowdrey@bcowdrey-VirtualBox:~$ ll  
total 84  
drwxr-x--- 15 bcowdrey bcowdrey 4096 Sep 16 13:55 ./  
drwxr-xr-x  3 root      root      4096 Aug 28 12:14 ../  
-rw-r----- 1 bcowdrey bcowdrey  154 Sep 14 17:09 .bash_history  
-rw-r----- 1 bcowdrey bcowdrey  220 Aug 28 12:14 .bash_logout  
-rw-r----- 1 bcowdrey bcowdrey 3771 Aug 28 12:14 .bashrc  
drwx----- 10 bcowdrey bcowdrey 4096 Sep  5 12:46 .cache/  
drwx----- 11 bcowdrey bcowdrey 4096 Aug 28 12:27 .config/  
-rw-r----- 1 bcowdrey bcowdrey 5329 Sep 16 13:54 copyright_cyse270  
drwxrwxr-x  2 bcowdrey bcowdrey 4096 Sep  6 12:35 Cowdrey_MIDAS/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Desktop/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Documents/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Downloads/  
drwx-----  3 bcowdrey bcowdrey 4096 Aug 28 12:22 .local/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Music/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Pictures/  
-rw-r----- 1 bcowdrey bcowdrey  807 Aug 28 12:14 .profile  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Public/  
drwx-----  3 bcowdrey bcowdrey 4096 Aug 28 12:22 snap/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Templates/  
drwxr-xr-x  2 bcowdrey bcowdrey 4096 Aug 28 12:22 Videos/  
bcowdrey@bcowdrey-VirtualBox:~$
```

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.

:wq to save it.