

## CYSE 270: Linux System for Cybersecurity

### Assignment: Lab 3 – VI Editor

#### Goal

- Practice using the vi editor.

#### Notes:

- Remember the “**modes**” in the vi editor.
- You may use the “**Escape**” key to return to command mode if you get confused

and need to start over. **Exercises**

1. Create a file using the vi editor.
2. Navigate, copy, paste, and edit within the vi editor.

#### Submission Instructions

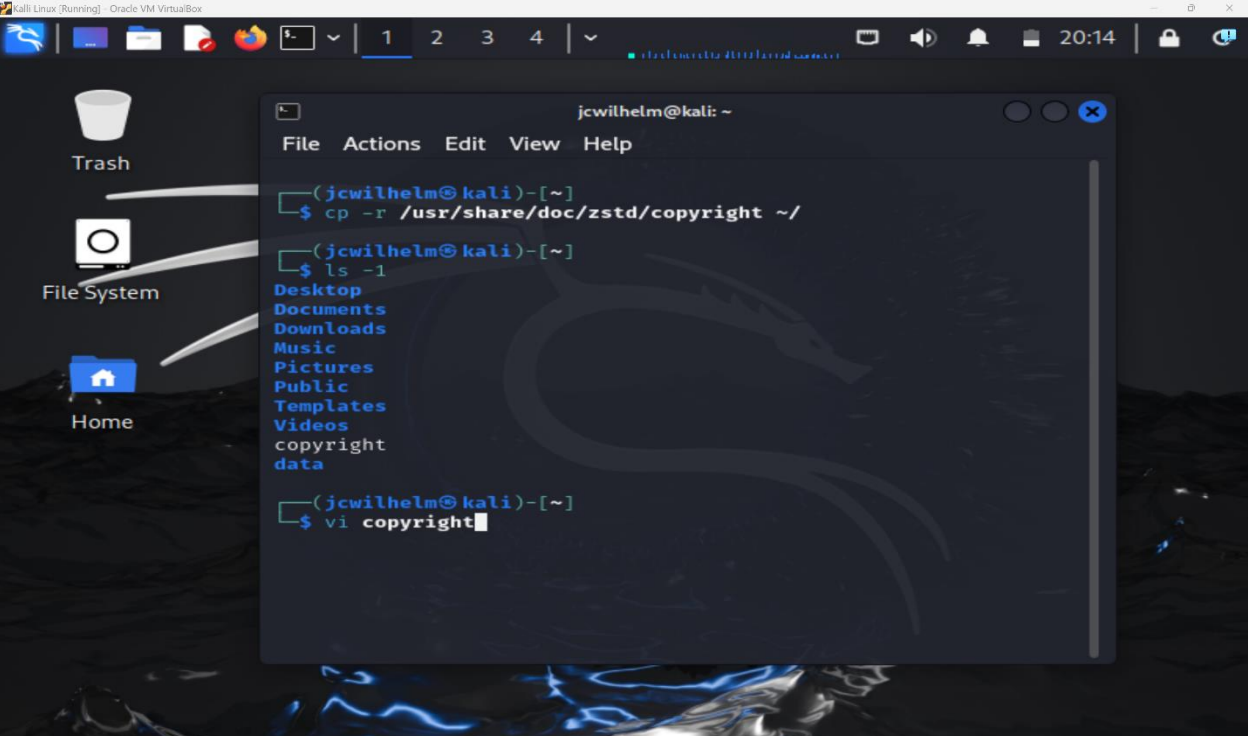
- Take screenshots for each step you perform and write down the correct command corresponding to each step number. Submit this in a Word or PDF file.
- Multiple commands that fit into a single screenshot can be submitted together

## 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.

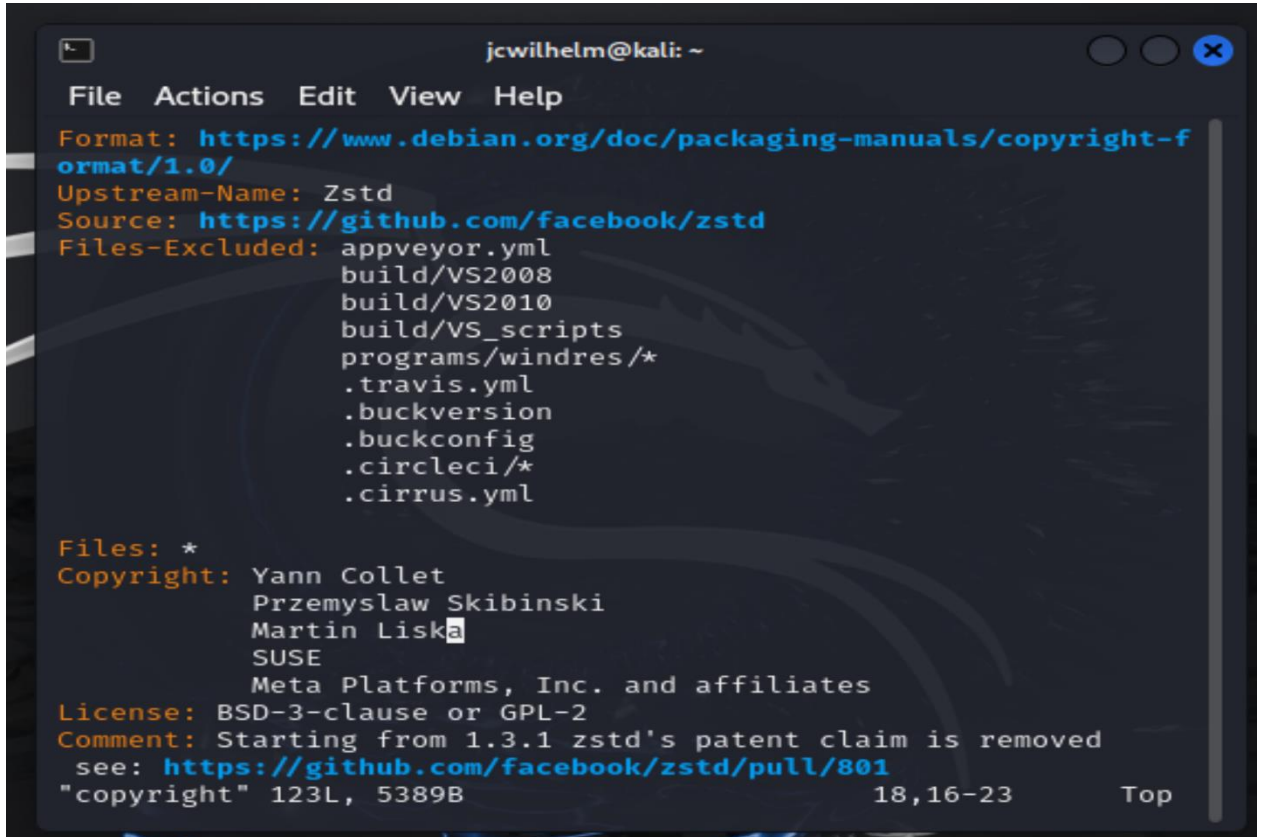
1. Copy the file `/usr/share/doc/zstd/copyright` to your home directory. **[NOTE:** alternatively, you can use any text file that is large if you cannot find this file on yours. For example: If you are not able to locate copyright file in your VM, you may copy `/etc/passwd` file to your home directory to work for lab-3.]
2. Perform a **long list** in your current directory using the correct command.



The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal window has a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal output shows the following commands and their results:

```
(jcwilhelm@kali)-[~]  
$ cp -r /usr/share/doc/zstd/copyright ~/  
  
(jcwilhelm@kali)-[~]  
$ ls -l  
Desktop  
Documents  
Downloads  
Music  
Pictures  
Public  
Templates  
Videos  
copyright  
data  
  
(jcwilhelm@kali)-[~]  
$ vi copyright
```

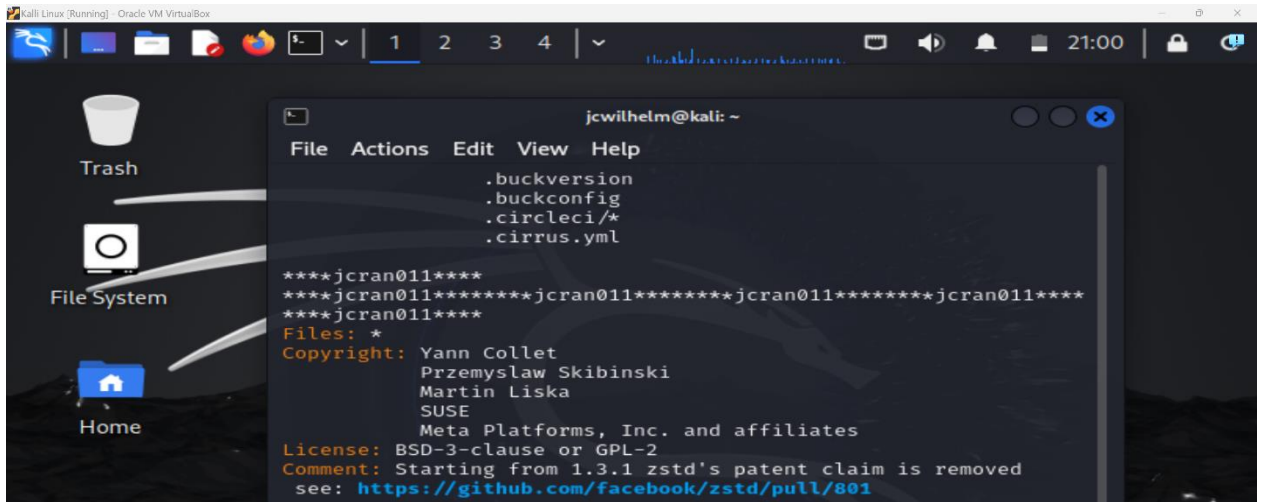
3. Open the file **copyright** (or any file that is large enough with multiple lines of text) in a vi-editor using **vi** command.



```
jcwilhelm@kali: ~  
File Actions Edit View Help  
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/VS2008  
                 build/VS2010  
                 build/VS_scripts  
                 programs/windres/*  
                 .travis.yml  
                 .buckversion  
                 .buckconfig  
                 .circleci/*  
                 .cirrus.yml  
  
Files: *  
Copyright: Yann Collet  
           Przemysław Skibinski  
           Martin Liska  
           SUSE  
           Meta Platforms, Inc. and affiliates  
License: BSD-3-clause or GPL-2  
Comment: Starting from 1.3.1 zstd's patent claim is removed  
         see: https://github.com/facebook/zstd/pull/801  
"copyright" 123L, 5389B                               18,16-23      Top
```

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).
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)
7. Return to the command mode.

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

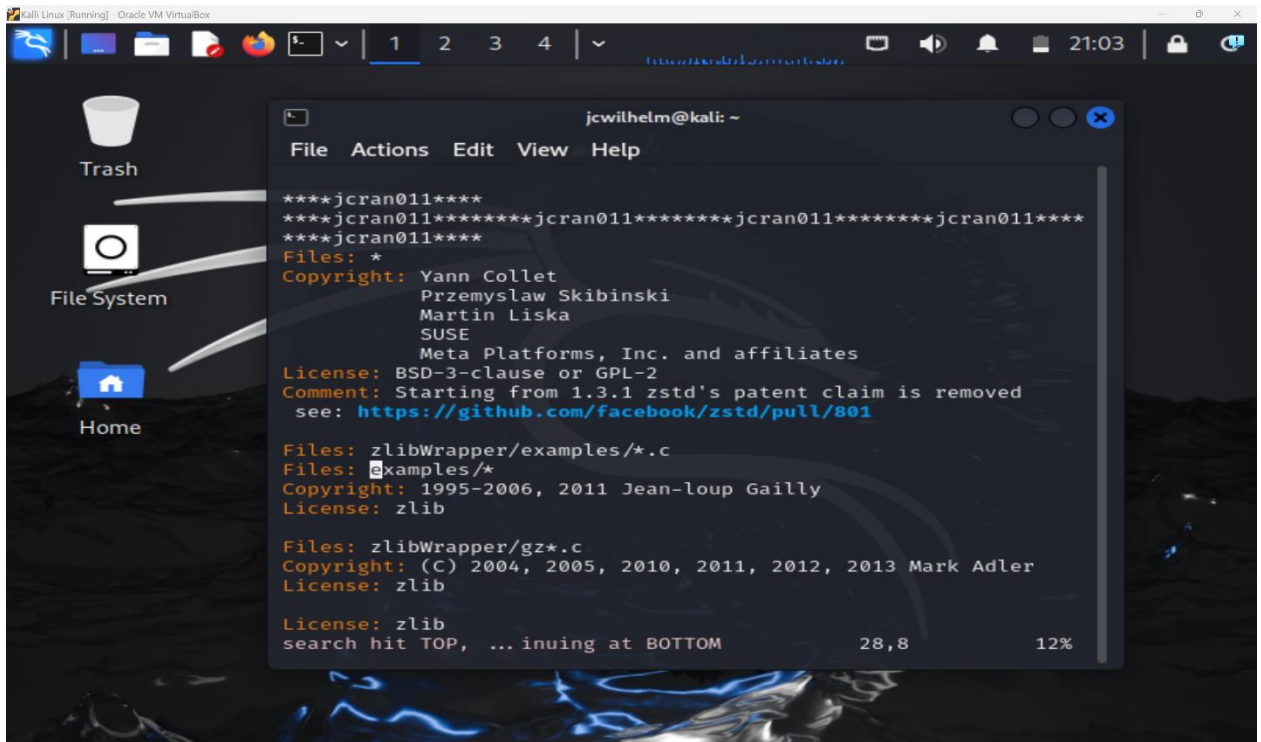


The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal displays the following content:

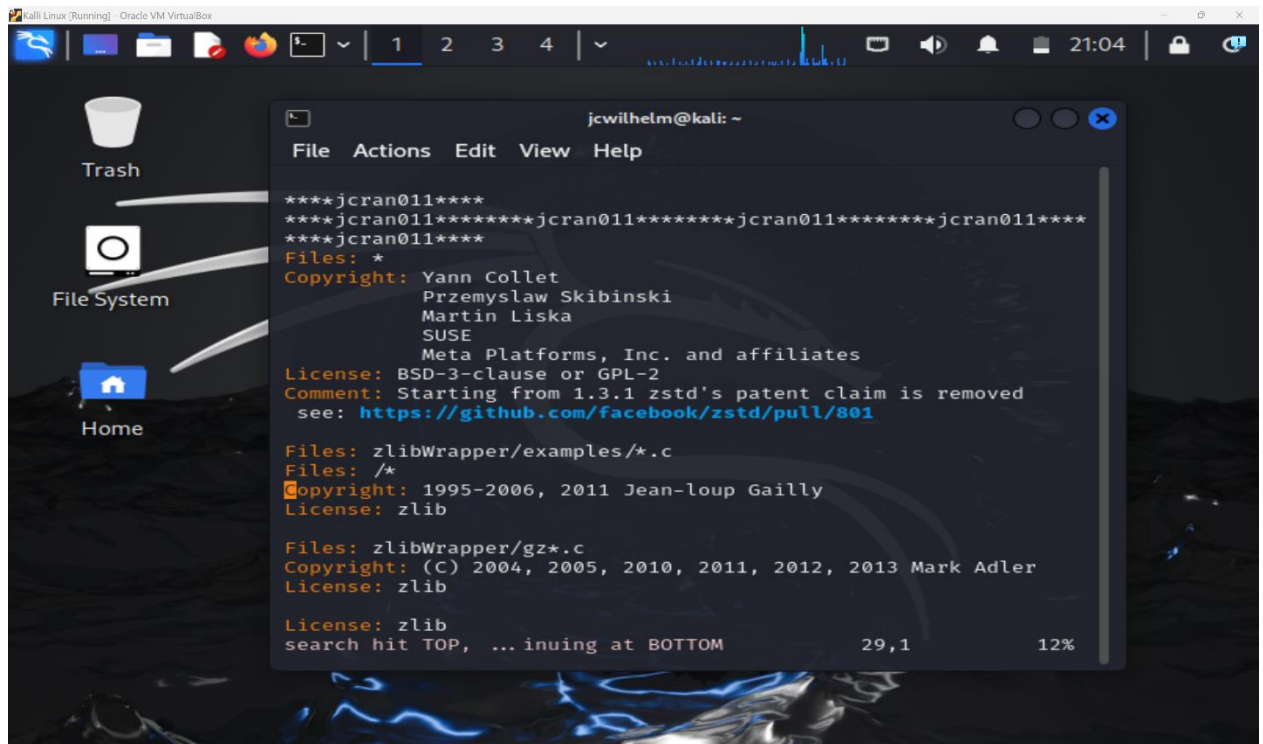
```
jcwilhelm@kali: ~  
File Actions Edit View Help  
    .buckversion  
    .buckconfig  
    .circleci/*  
    .cirrus.yml  
  
****jcran011****  
****jcran011*****jcran011*****jcran011*****jcran011****  
****jcran011****  
Files: *  
Copyright: Yann Collet  
           Przemyslaw Skibinski  
           Martin Liska  
           SUSE  
           Meta Platforms, Inc. and affiliates  
License: BSD-3-clause or GPL-2  
Comment: Starting from 1.3.1 zstd's patent claim is removed  
see: https://github.com/facebook/zstd/pull/801
```

9. Use command to return the **top** of the file. [Please write the correct command for this step]
10. **Move forward three sentences.** [Please write the correct command for this step with step number]
11. Move forward **four words**. [Please write the correct command for this step]
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]

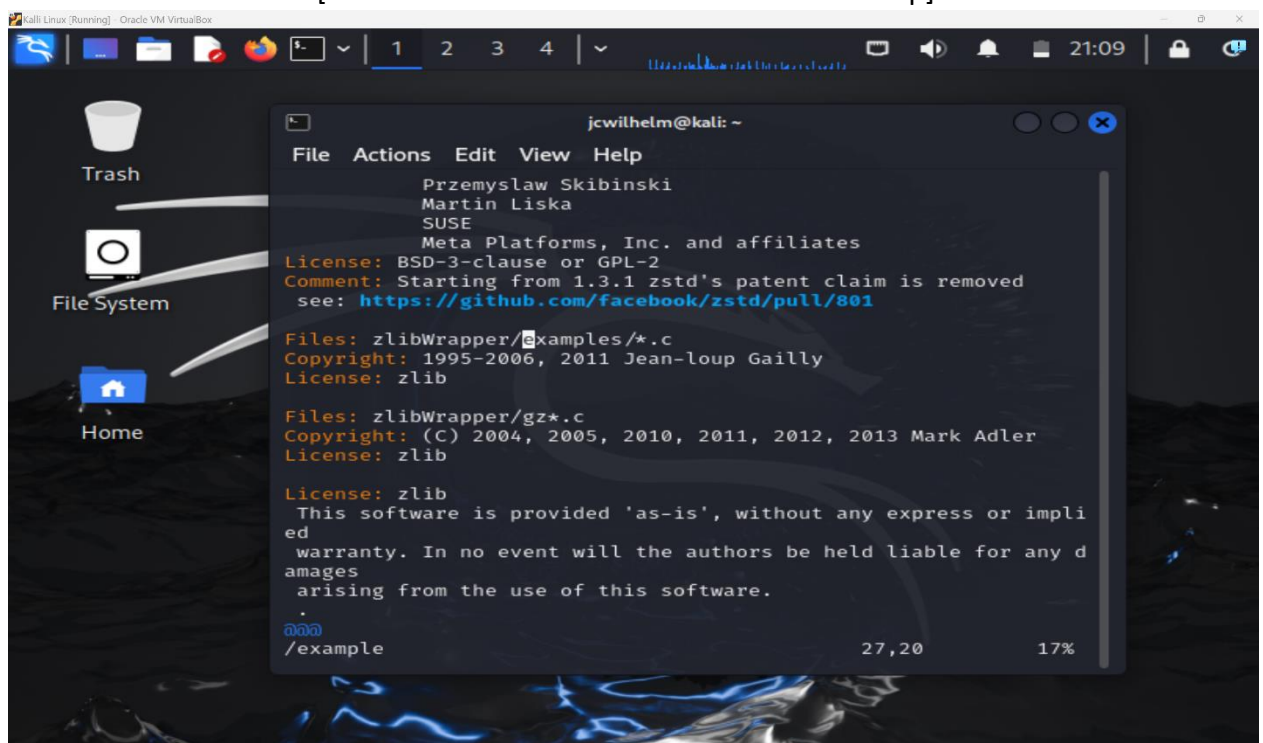
13. Continue to the next occurrence of the search term **example**. [Please take the screenshot for this step to submit]

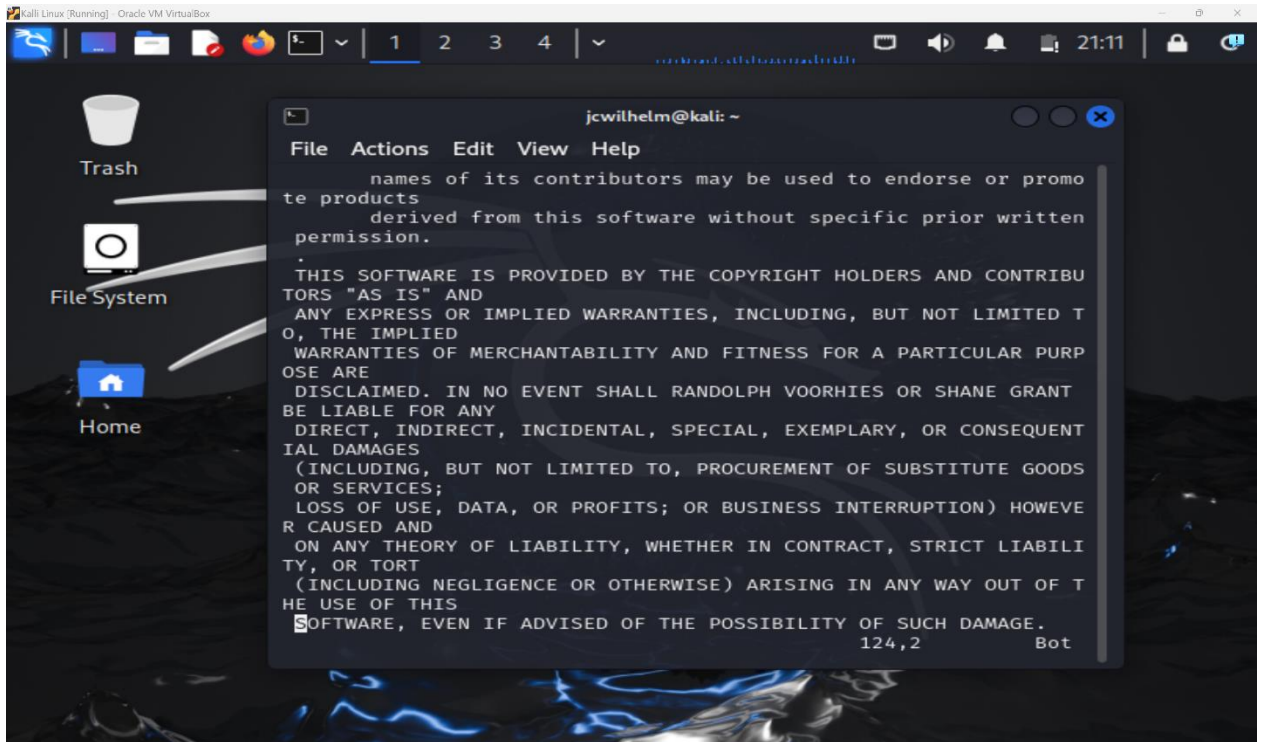


**14.** Delete the current word, **example**. [Please take the screenshot for this step to submit]

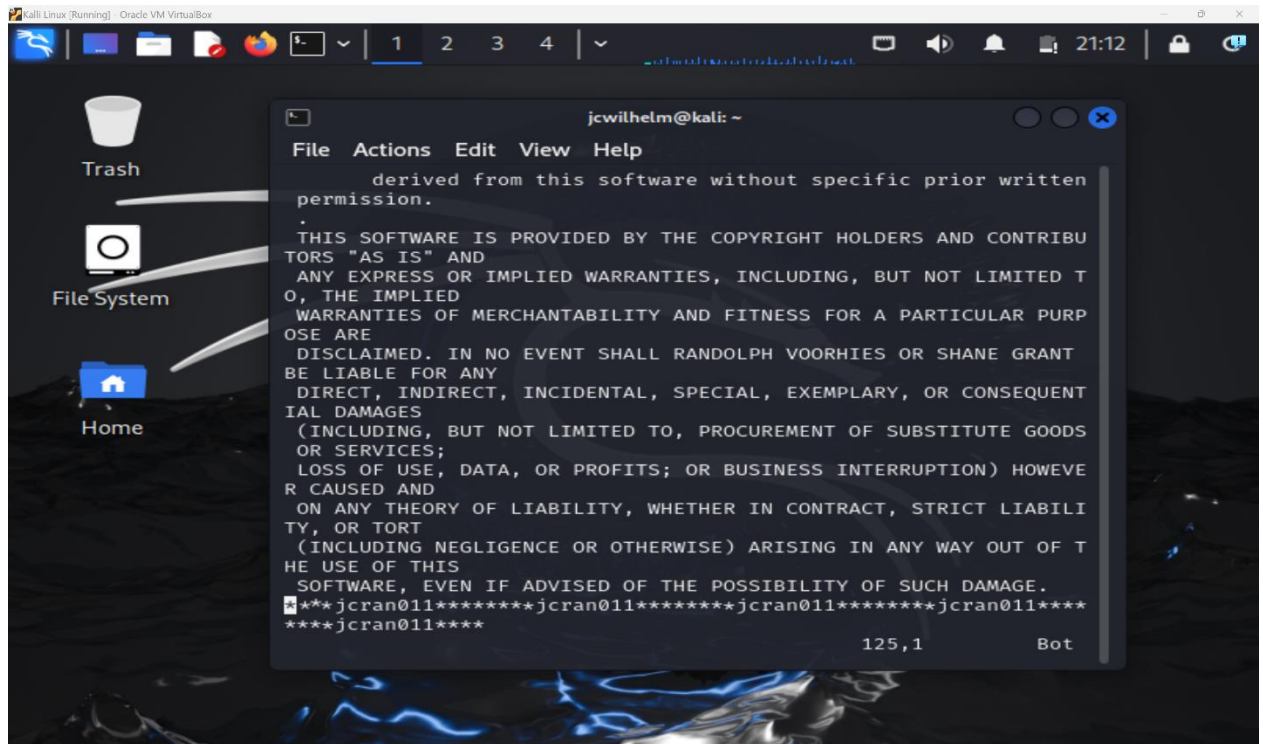


**15. Delete the current line.** [Pease write the correct command for this step]



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

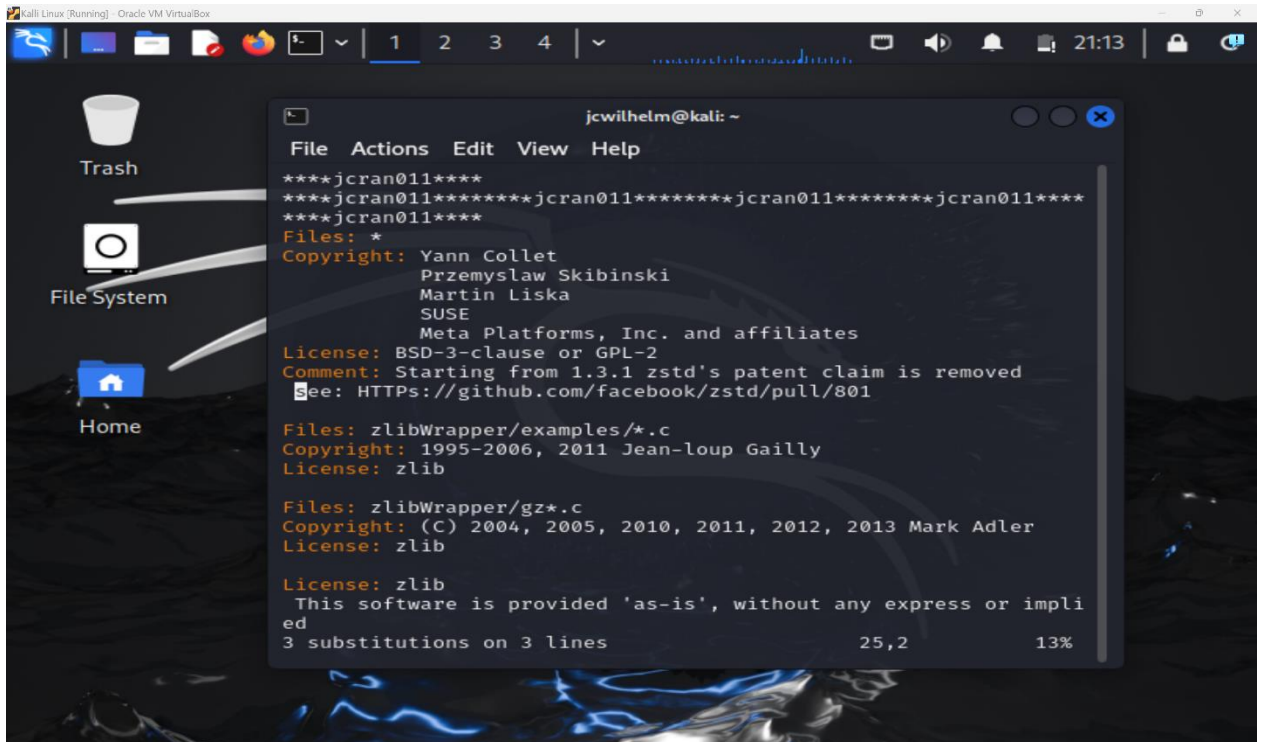
17. Copy line 16 and paste the text at the end of the document. [Please write the correct command for this step]



The screenshot shows a Kali Linux desktop environment within an Oracle VM VirtualBox window. The desktop has a dark background with icons for 'Trash', 'File System', and 'Home'. A terminal window is open, displaying a menu with 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal output shows a copyright notice for 'jcran011' and a disclaimer. The terminal prompt is 'jcran011@kali: ~'. The terminal output is as follows:

```
File Actions Edit View Help
derived from this software without specific prior written
permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBU
TORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED T
O, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURP
OSE ARE
DISCLAIMED. IN NO EVENT SHALL RANDOLPH VOORHIES OR SHANE GRANT
BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENT
IAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVE
R CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILI
TY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF T
HE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
***jcran011*****jcran011*****jcran011*****jcran011****
***jcran011****
125,1 Bot
```

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



The screenshot shows a Kali Linux desktop environment within an Oracle VM VirtualBox window. The desktop has a dark background with icons for Trash, File System, and Home. A terminal window is open, displaying the output of a command. The terminal output shows the license information for a file, including copyright notices and a license type (zlib). The terminal window title is "jcwilhelm@kali: ~".

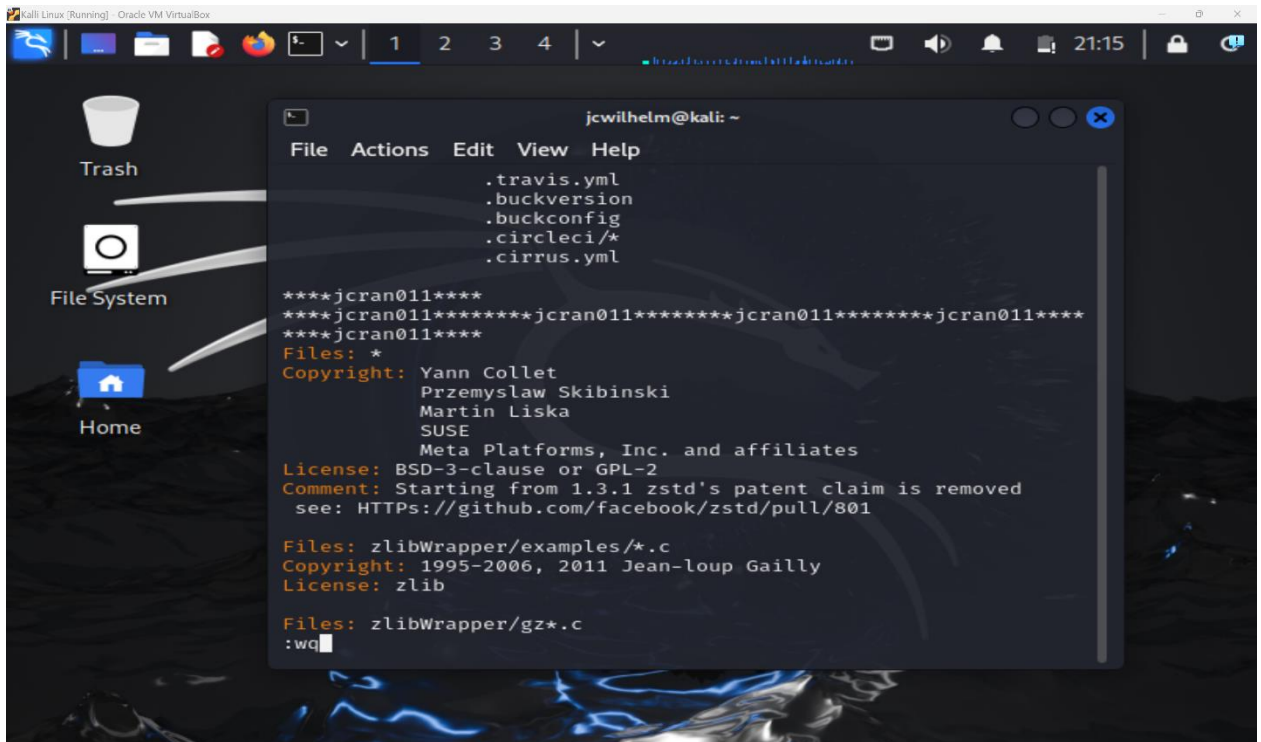
```
File Actions Edit View Help
****jcran011****
****jcran011*****jcran011*****jcran011*****jcran011****
****jcran011****
Files: *
Copyright: Yann Collet
          Przemyslaw Skibinski
          Martin Liska
          SUSE
          Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: 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

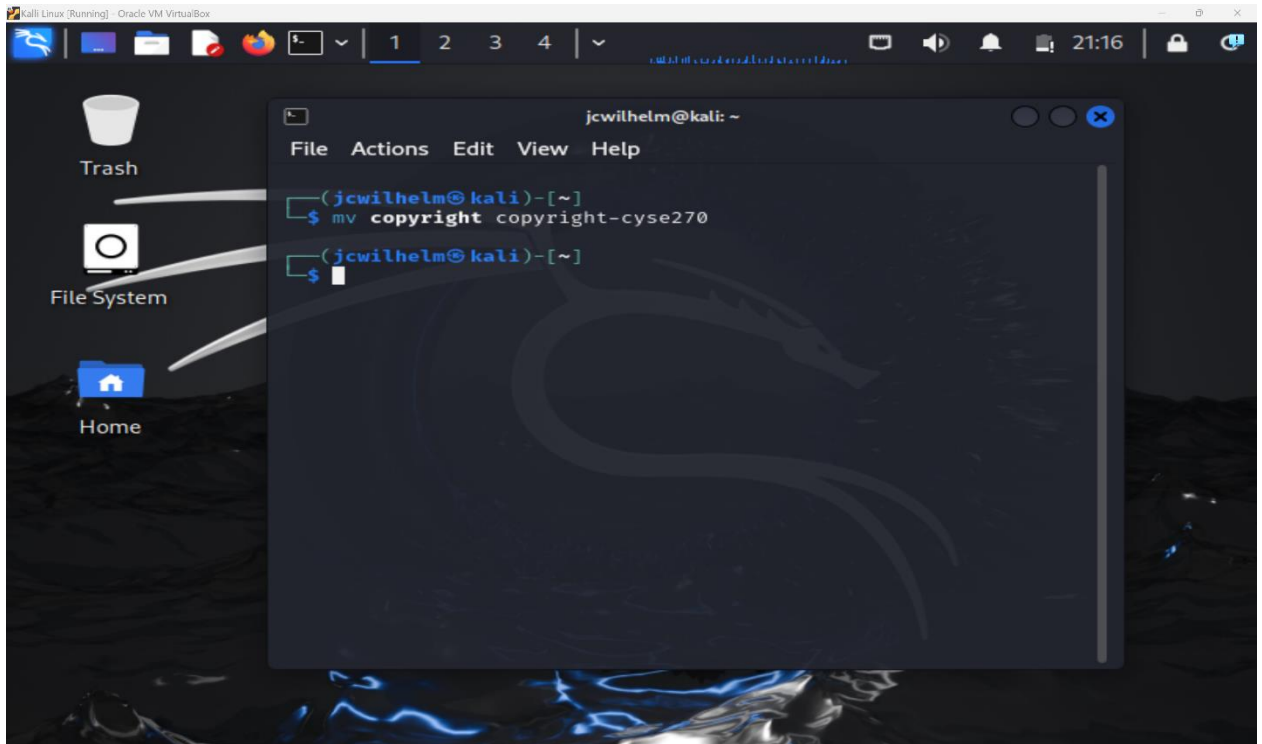
Files: zlibWrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

License: zlib
This software is provided 'as-is', without any express or implied
3 substitutions on 3 lines                25,2                13%
```

**19. Save and quit** the document. [Please take the screenshot for this step as well and submit]



**20. Rename** the file **copyright** to **copyright\_cyse270** [Please take the screenshot for this step as well and submit]



**Please note:**

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