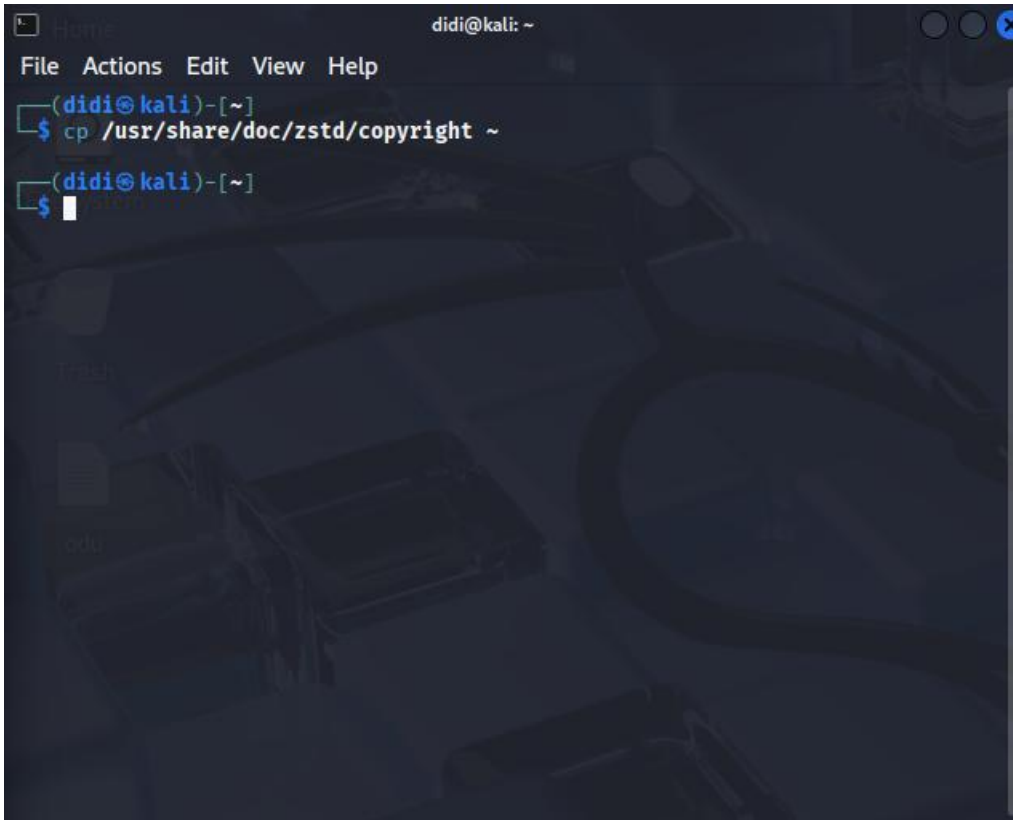


CYSE 270: Linux System for Cybersecurity

Lab 3 – VI Editor

Task: vi Practice on Kali Linux

1. Copy the file `/usr/share/doc/zstd/copyright` to your home directory.



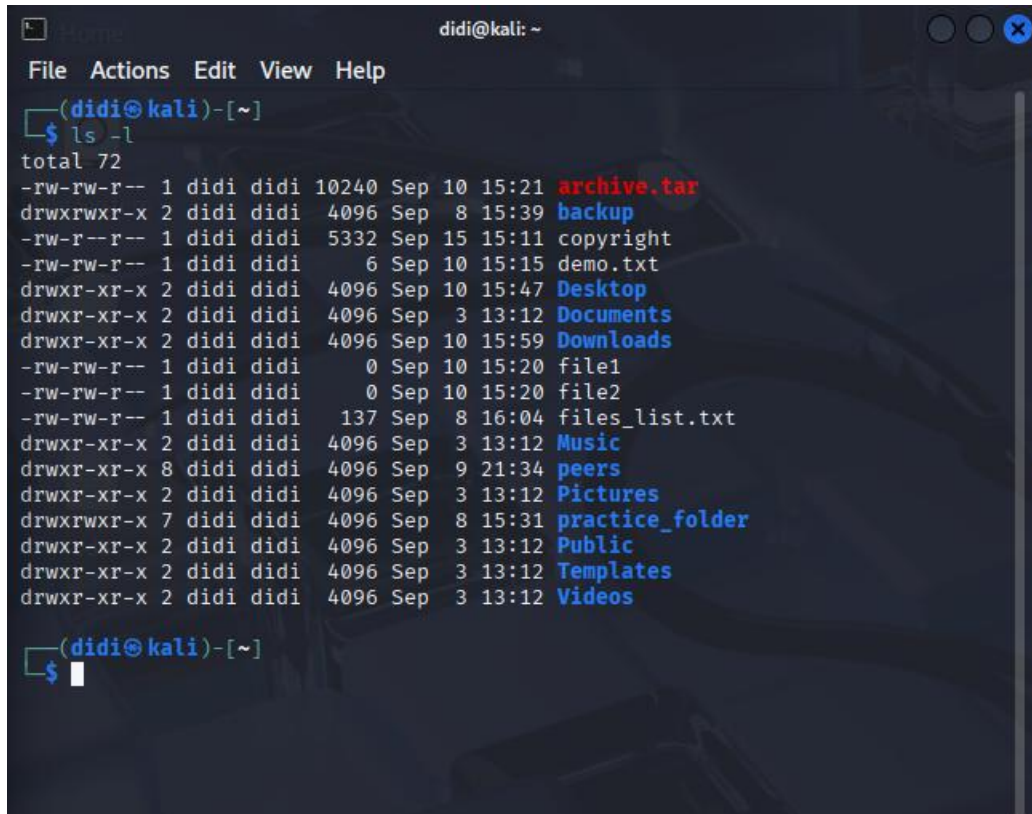
The screenshot shows a terminal window titled "didi@kali: ~". The window has a menu bar with "File", "Actions", "Edit", "View", and "Help". The terminal prompt is "(didi@kali)-[~]". The command `cp /usr/share/doc/zstd/copyright ~` has been entered and executed. The prompt is now `(didi@kali)-[~]` followed by a dollar sign and a cursor.

```
didi@kali: ~  
File Actions Edit View Help  
(didi@kali)-[~]  
$ cp /usr/share/doc/zstd/copyright ~  
(didi@kali)-[~]  
$
```

Indhira Caceres

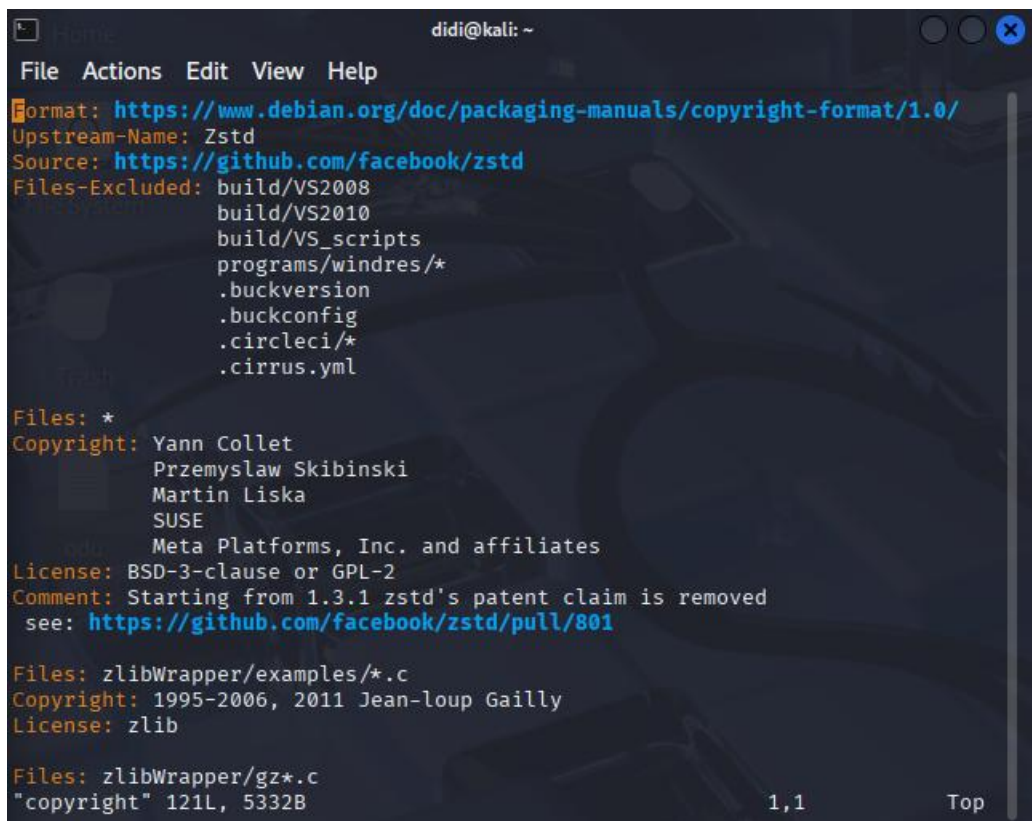
Al Kinoon

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



```
(didi@kali)-[~]
$ ls -l
total 72
-rw-rw-r-- 1 didi didi 10240 Sep 10 15:21 archive.tar
drwxrwxr-x 2 didi didi 4096 Sep  8 15:39 backup
-rw-r--r-- 1 didi didi 5332 Sep 15 15:11 copyright
-rw-rw-r-- 1 didi didi  6 Sep 10 15:15 demo.txt
drwxr-xr-x 2 didi didi 4096 Sep 10 15:47 Desktop
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Documents
drwxr-xr-x 2 didi didi 4096 Sep 10 15:59 Downloads
-rw-rw-r-- 1 didi didi  0 Sep 10 15:20 file1
-rw-rw-r-- 1 didi didi  0 Sep 10 15:20 file2
-rw-rw-r-- 1 didi didi 137 Sep  8 16:04 files_list.txt
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Music
drwxr-xr-x 8 didi didi 4096 Sep  9 21:34 peers
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Pictures
drwxrwxr-x 7 didi didi 4096 Sep  8 15:31 practice_folder
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Public
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Templates
drwxr-xr-x 2 didi didi 4096 Sep  3 13:12 Videos
```

3. Open the file copyright in a vi-editor using vi command.



```
(didi@kali: ~)
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

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

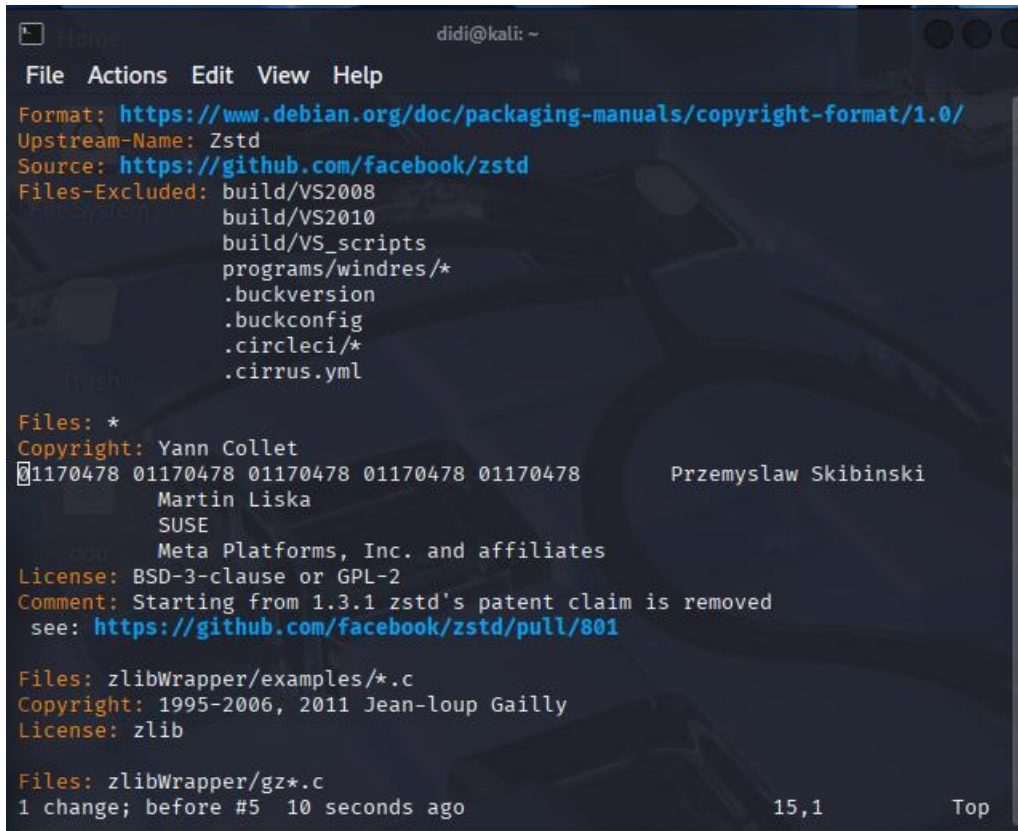
Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibWrapper/gz*.c
"copyright" 121L, 5332B
```

Indhira Caceres

Al Kinoon

4. Move to line 15, then insert your MIDAS ID in the same line



```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      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

Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibWrapper/gz*.c
1 change; before #5 10 seconds ago 15,1 Top
```

Command: *5i "midas id" esc*

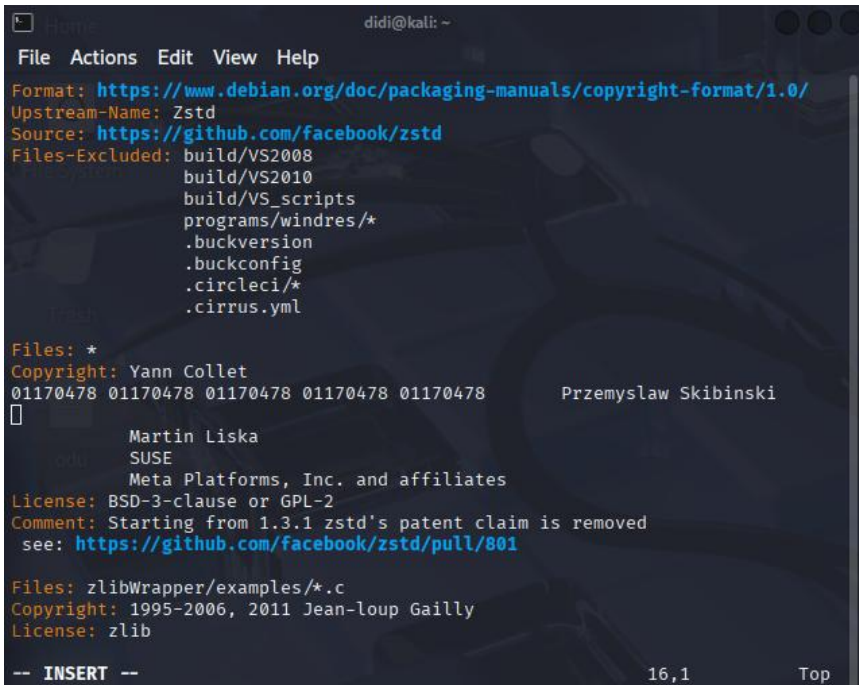
5. Return to the command mode.

Command: *esc*

Indhira Caceres

Al Kinoon

6. Open a new line below the current line using correct command



The screenshot shows a terminal window with a file editor. The editor displays a copyright notice for zstd, including the format URL, upstream name, source, excluded files, and license information. The cursor is positioned at the end of the first line of the copyright notice, ready to insert a new line.

```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      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

Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

-- INSERT --                               16,1                               Top
```

Command: *o*

7. Return to the command mode.

Command: *esc*

Indhira Caceres

Al Kinoon

8. Use command to Insert midas five times

```
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: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      Przemyslaw Skibinski
01170478 01170478 01170478 01170478 01170478
                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

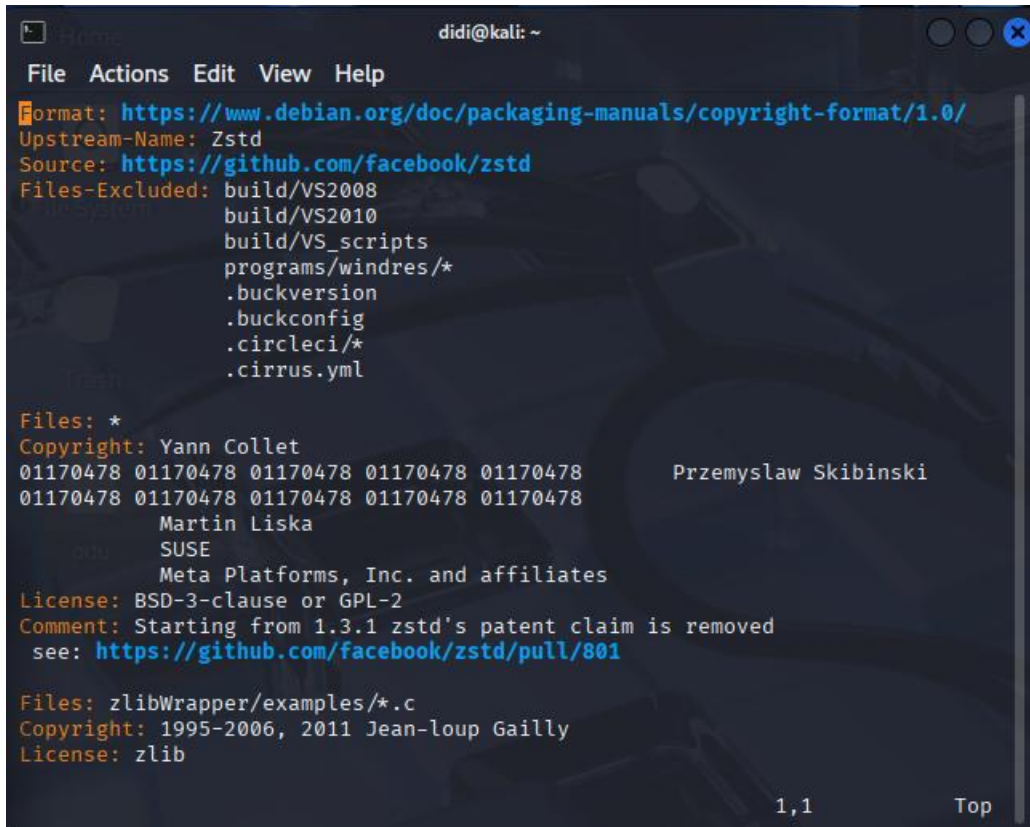
16,45      Top
```

Command: 5i "midas id" esc

Indhira Caceres

Al Kinoon

9. Use command to return the top of the file.



```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

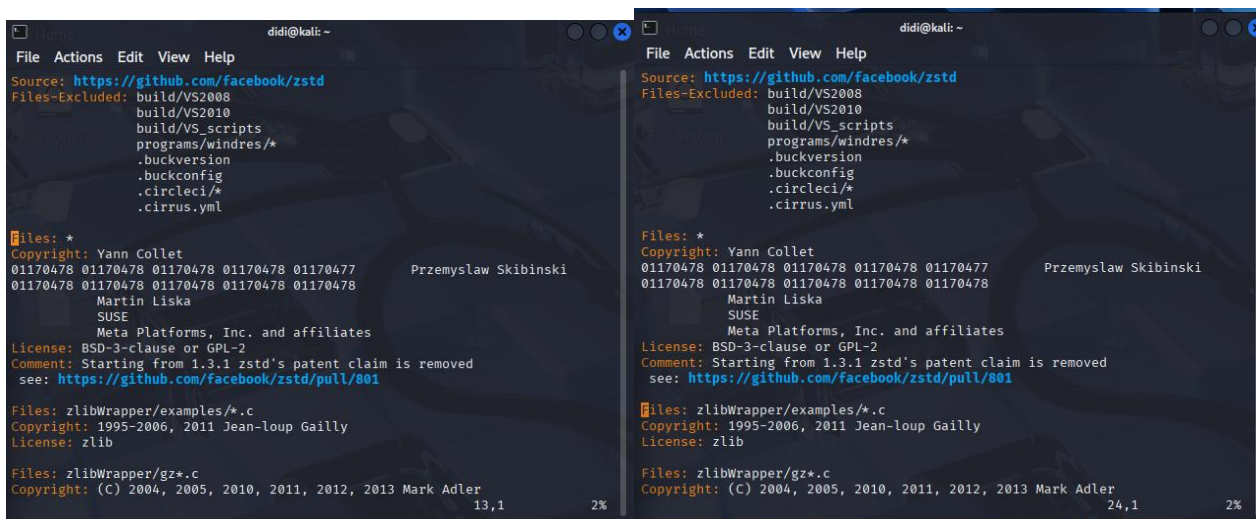
Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      Przemyslaw Skibinski
01170478 01170478 01170478 01170478 01170478
          Martin Liska
          SUSE
          Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
        see: https://github.com/facebook/zstd/pull/801

Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

1,1      Top
```

Command: 1G

10. Move forward three sentences.



```
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170477      Przemyslaw Skibinski
01170478 01170478 01170478 01170478 01170478
          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
13,1      2%

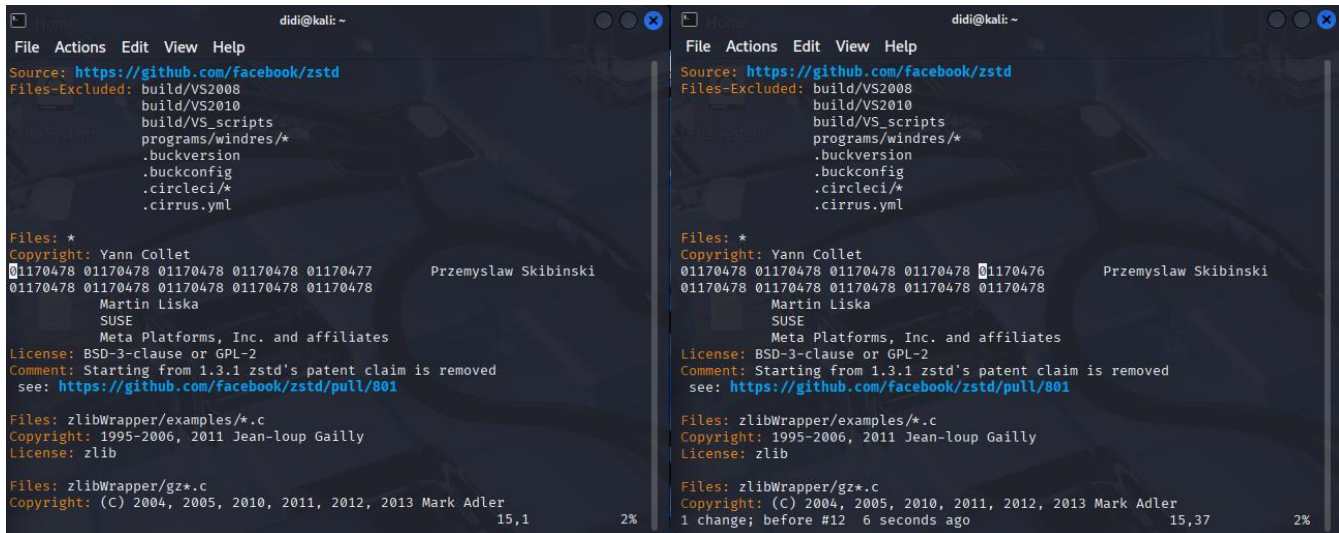
24,1      2%
```

Command: 3)

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Al Kinoon

11. Move forward four words.



```
File Actions Edit View Help
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

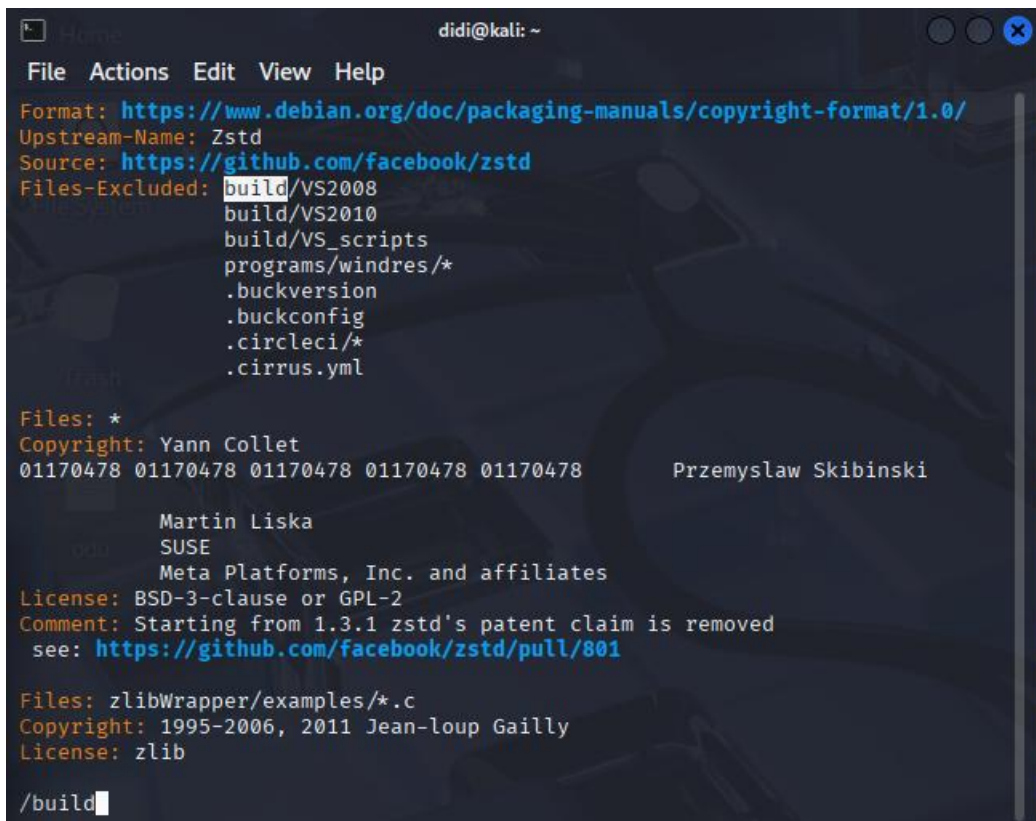
Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170477      Przemyslaw Skibinski
01170478 01170478 01170478 01170478 01170478
        Martin Liska
        SUSE
        Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim 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
                                                15,1      2%
```

Command: 4w

12. Search for the word example or any word existing in the document that you are using for lab-3



```
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: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      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

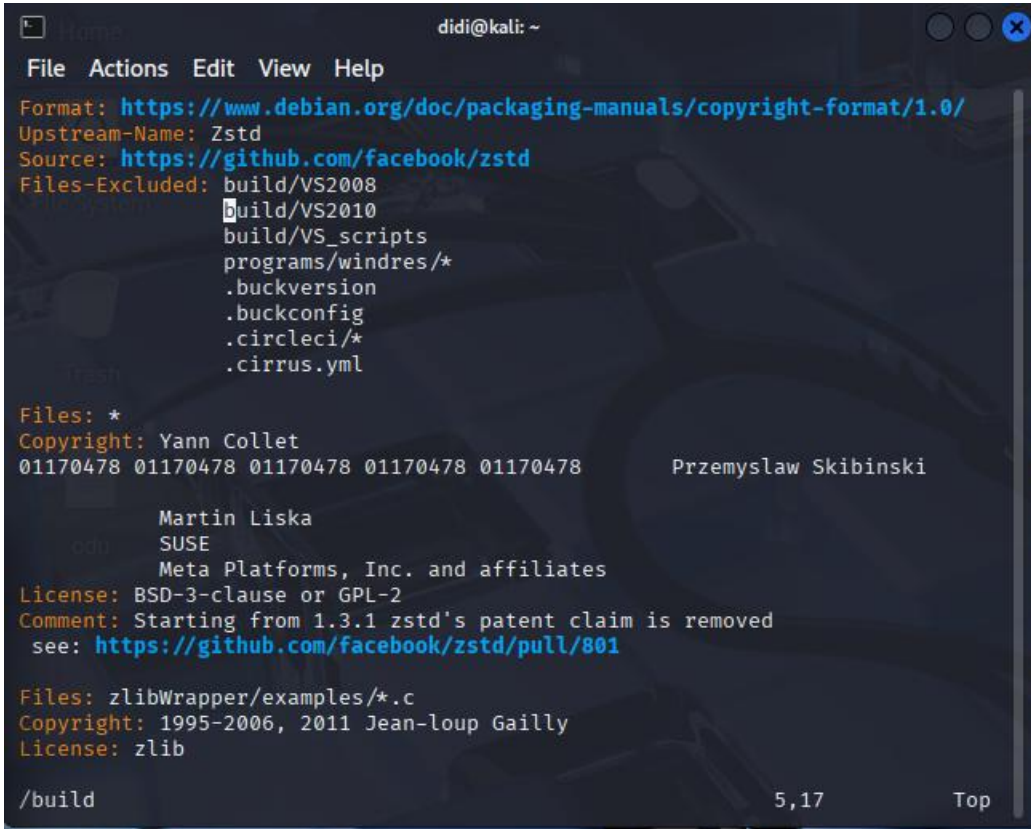
Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

/build
```

Command: /build

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Al Kinoon

13. Continue to the next occurrence of the search term example.



```
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: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
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        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

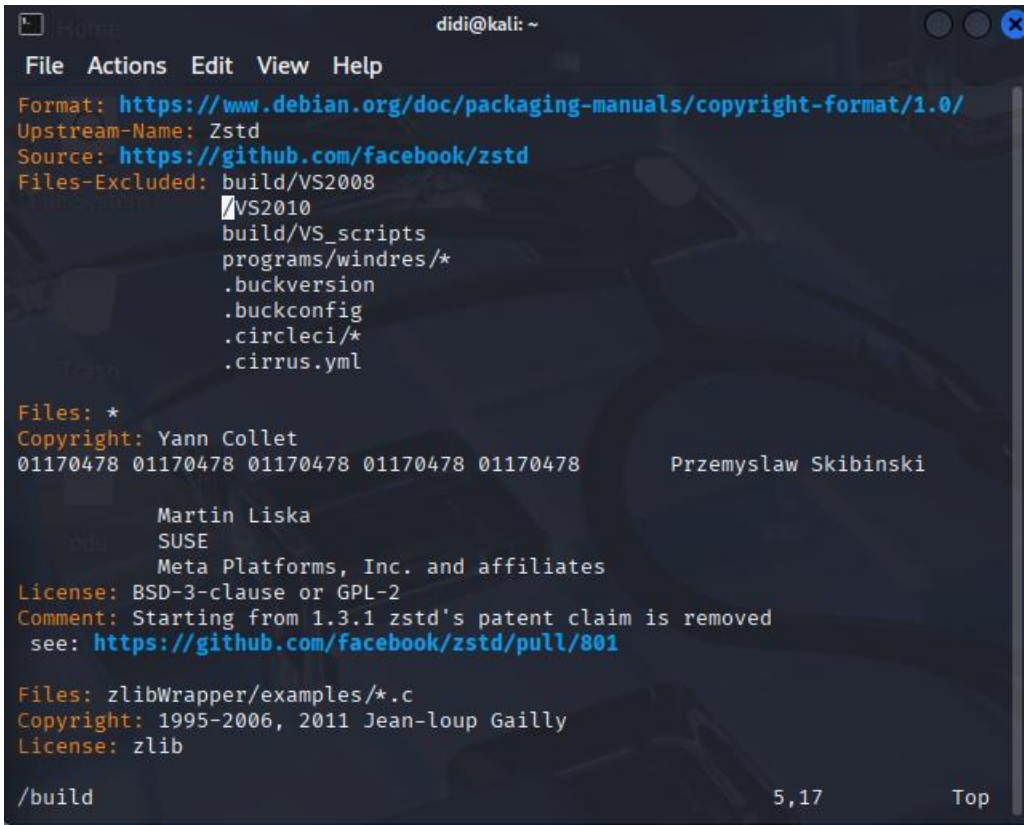
/build                                     5,17                                     Top
```

Command: n

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Al Kinoon

14. Delete the current word, example.



```
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: build/VS2008
                VS2010
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      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

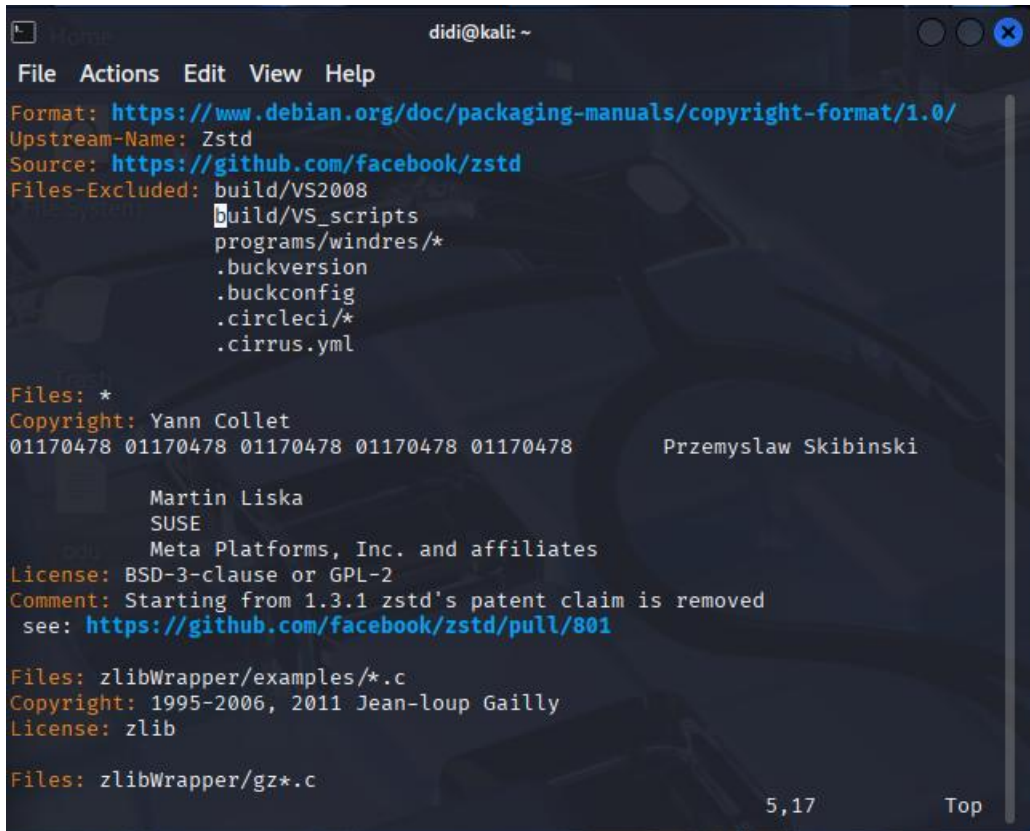
Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

/build                                     5,17      Top
```

Command: dw

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Al Kinoon

15. Delete the current line.



```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/VS2008
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478      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

Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

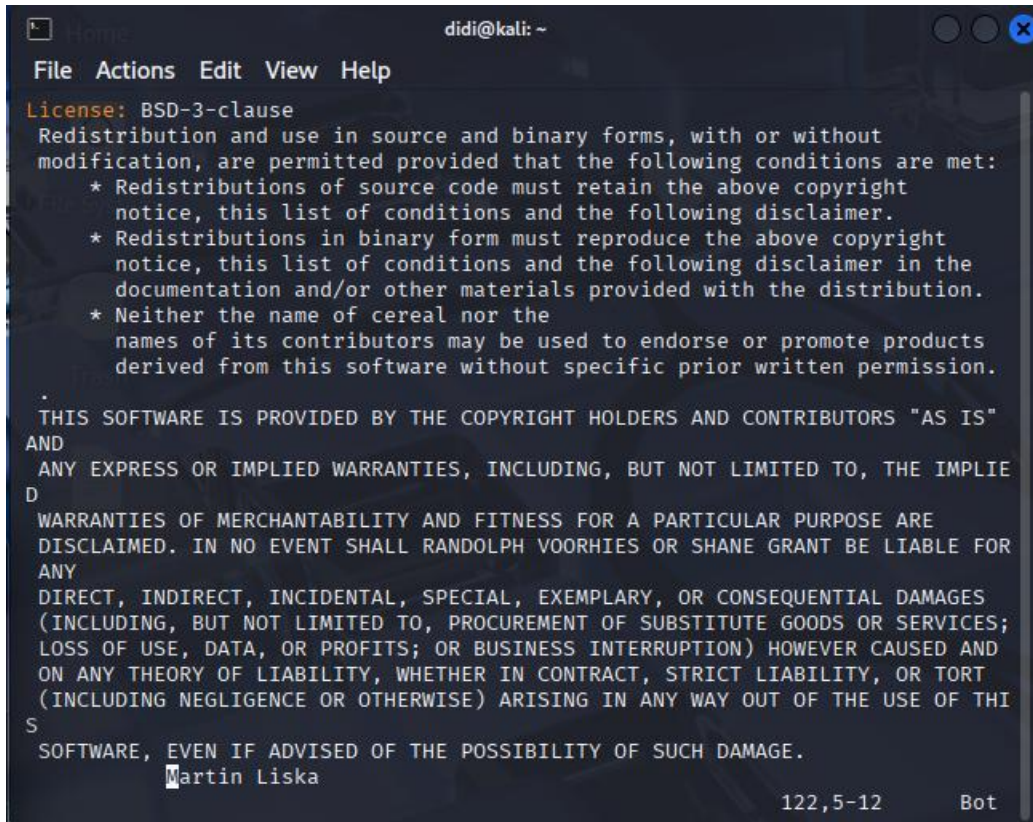
Files: zlibWrapper/gz*.c
```

Command: dd

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Al Kinoon

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



The screenshot shows a text editor window titled 'didi@kali: ~'. The menu bar includes 'File', 'Actions', 'Edit', 'View', and 'Help'. The text content is a BSD-3-clause license. The cursor is positioned at the end of the line 'Martin Liska'. The status bar at the bottom right shows '122,5-12' and 'Bot'.

```
File Actions Edit View Help
License: BSD-3-clause
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.

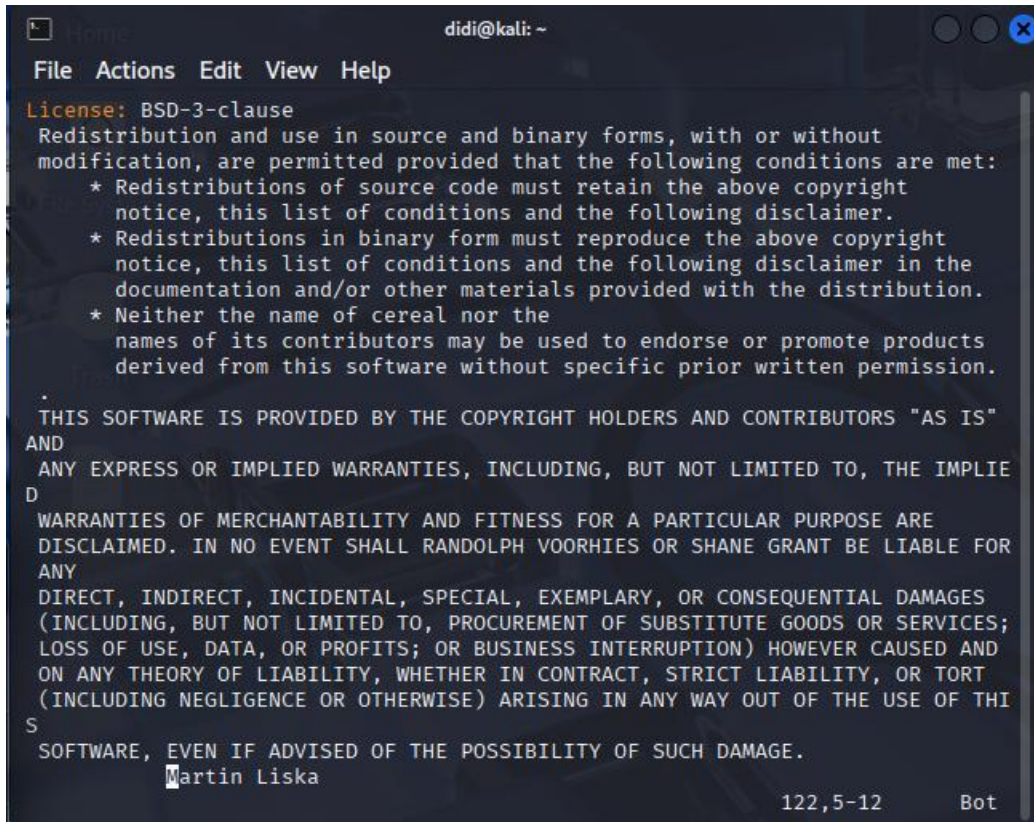
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIE
D
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL RANDOLPH VOORHIES OR SHANE GRANT BE LIABLE 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 THI
S
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Martin Liska
122,5-12 Bot
```

Command: G

Indhira Caceres

Al Kinoon

17. Copy line 16 and paste the text at the end of the document.

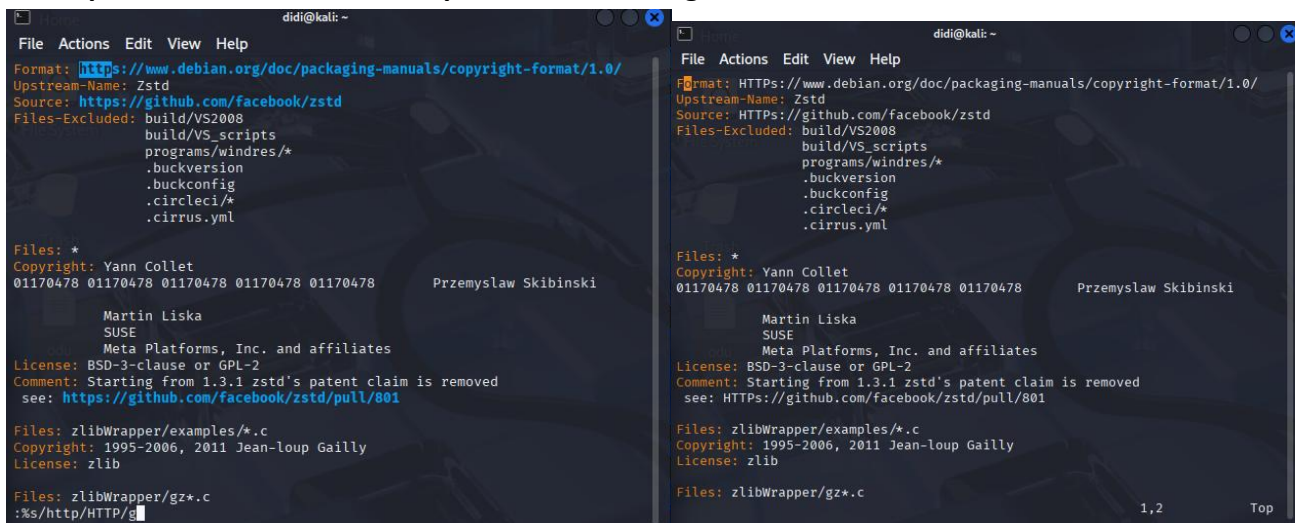


```
File Actions Edit View Help
license: BSD-3-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the 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.

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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.
Martin Liska
122,5-12 Bot
```

Command: `yy` then `G` then `p`

18. Replace all occurrences of `http` with `HTTP` throughout the document.



```
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: build/VS2008
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
01170478 01170478 01170478 01170478 01170478 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
:s/http/HTTP/g

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: build/VS2008
                build/VS_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
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        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

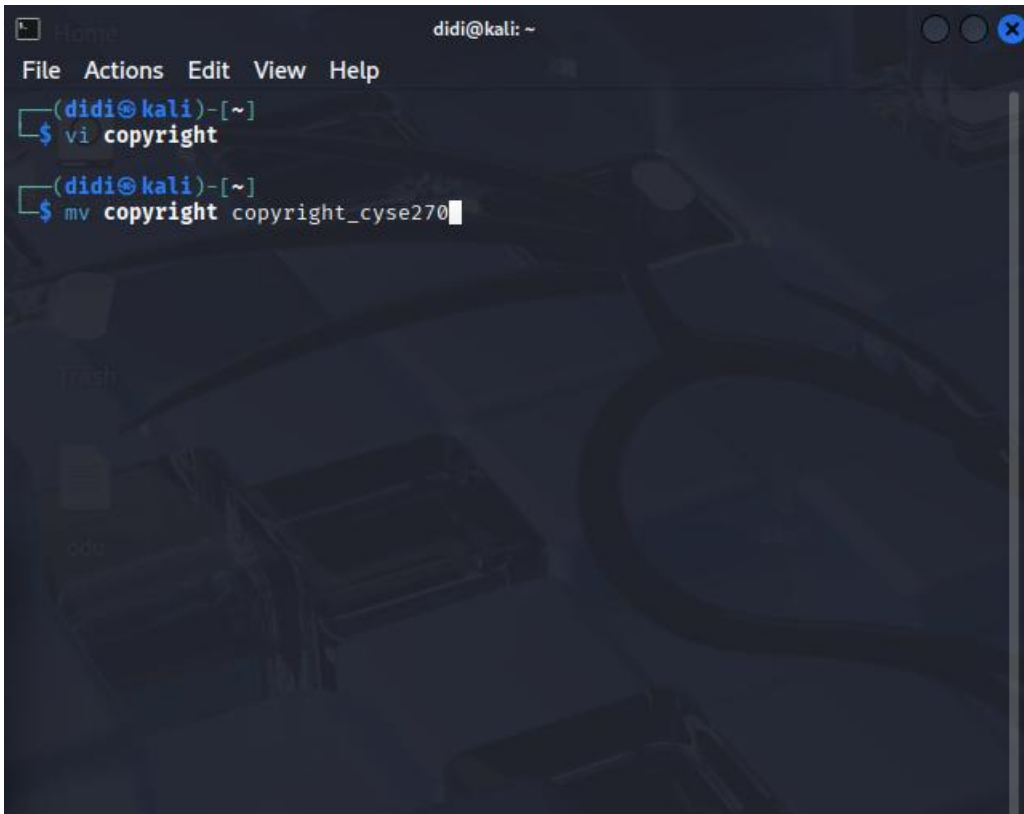
Files: zlibWrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibWrapper/gz*.c
1,2 Top
```

Command: `:s/http/HTTP/g`

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Al Kinoon

19. Save and quit the document

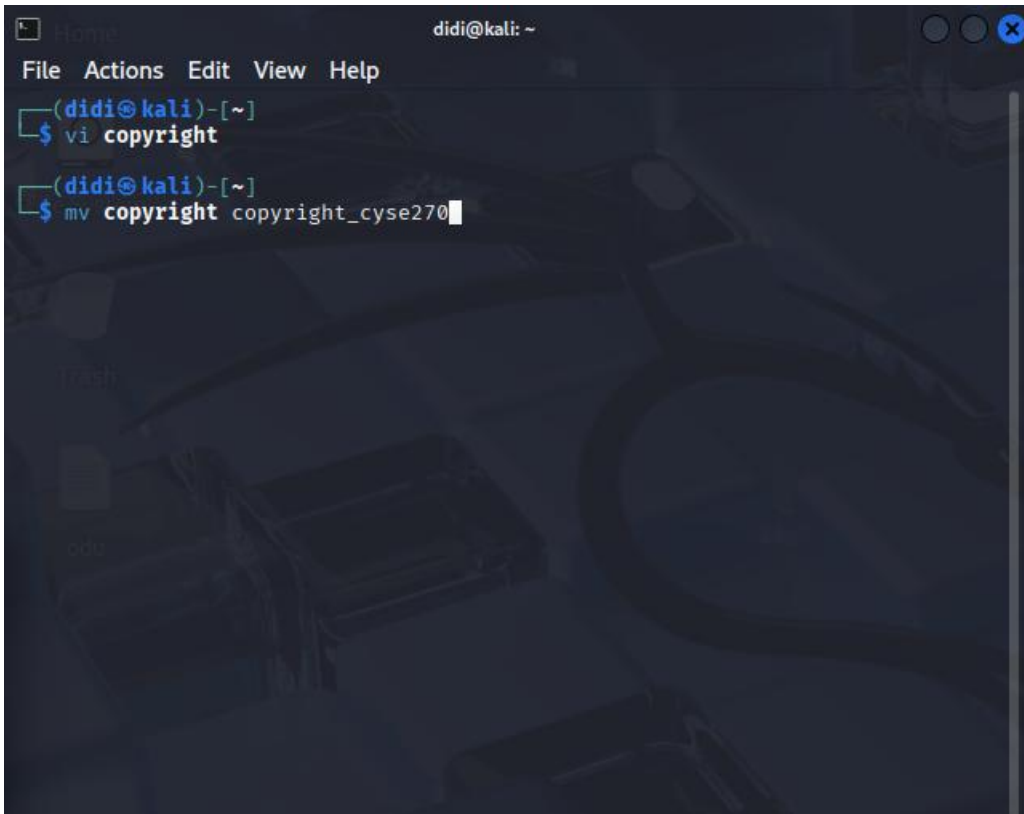
A terminal window titled 'didi@kali: ~' with a menu bar containing 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal shows two commands being executed: first, '\$ vi copyright', which opens the vim editor; second, '\$ mv copyright copyright_cyse270', which renames the file. The background of the terminal window features a dark, abstract graphic with a large circular shape and some geometric patterns.

```
didi@kali: ~  
File Actions Edit View Help  
(didi@kali)-[~]  
$ vi copyright  
(didi@kali)-[~]  
$ mv copyright copyright_cyse270
```

Command: ZZ

Indhira Caceres
Al Kinoon

20. Rename the file copyright to copyright_cyse270.

A screenshot of a Kali Linux terminal window. The window title is "didi@kali: ~". The menu bar shows "File", "Actions", "Edit", "View", and "Help". The terminal shows two commands: first, `vi copyright`, and second, `mv copyright copyright_cyse270`. The background of the terminal window features a dark, abstract graphic with a large circular shape and some text elements like "radi" and "ode".

```
didi@kali: ~  
File Actions Edit View Help  
(didi@kali)-[~]  
$ vi copyright  
(didi@kali)-[~]  
$ mv copyright copyright_cyse270
```

Command: mv copyright copyright_cyse270