

Lab 3 | Installing software and navigating the file system | Answers

Assignment description [here](#)

Question 1

1. Which command did you use to search for the themes and to install them?

- apt search theme
- sudo apt install yuyo-gtk-theme

2. Which commands did you use to find and install the web browser?

- sudo apt install wikipedia2text

3.1 What is the name of the package?

- wikipedia2text

3.2 What dependencies are needed in order to install the package? (you can either take a screenshot of the terminal or copy and paste from the terminal)

- The following packages were automatically installed and are no longer required: apport-symptoms guile-2.2-libs libevent-2.1-7 libgc1c2 libgnome-games-support-1-3 libgnome-games-support-common libnatpmp1 libqqwing2v5 python3-systemd

3.3 How much disk space will the package utilize after installation?

- Need to get 10.3 kB of archives. After this operation, 31.7 kB of additional disk space will be used.

4 Use the command line to find a 3D or 2D racing game. Answer the following questions about the game:

4.1 What is the name of the package?

- libclanapp-1.0v5 trophy trophy-data

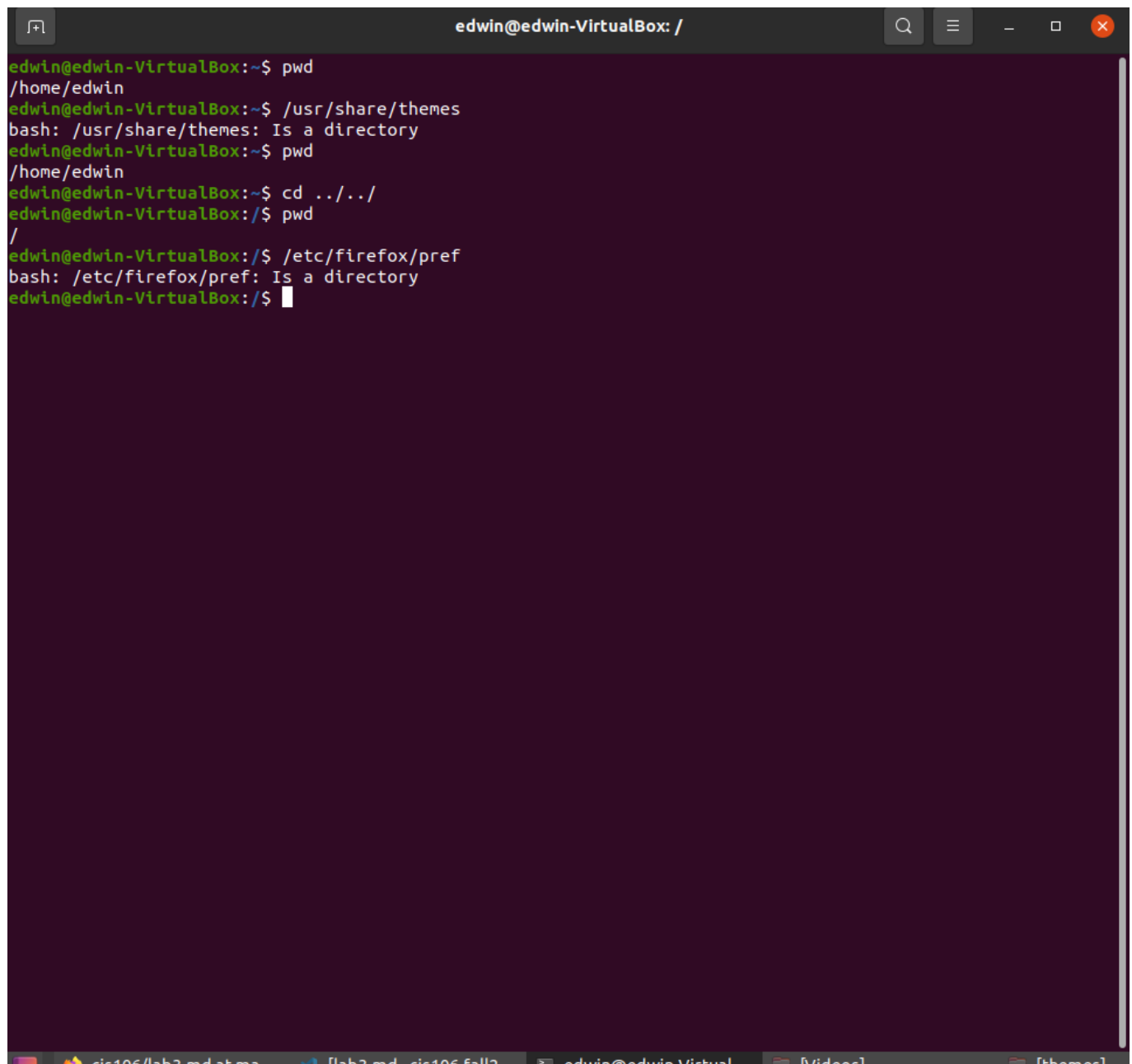
4.2 What dependencies are needed in order to install the package? (you can either take a screenshot of the terminal or copy and paste from the terminal)

- libclanapp-1.0v5 trophy-data

4.2 How much disk space will the package utilize after installation?

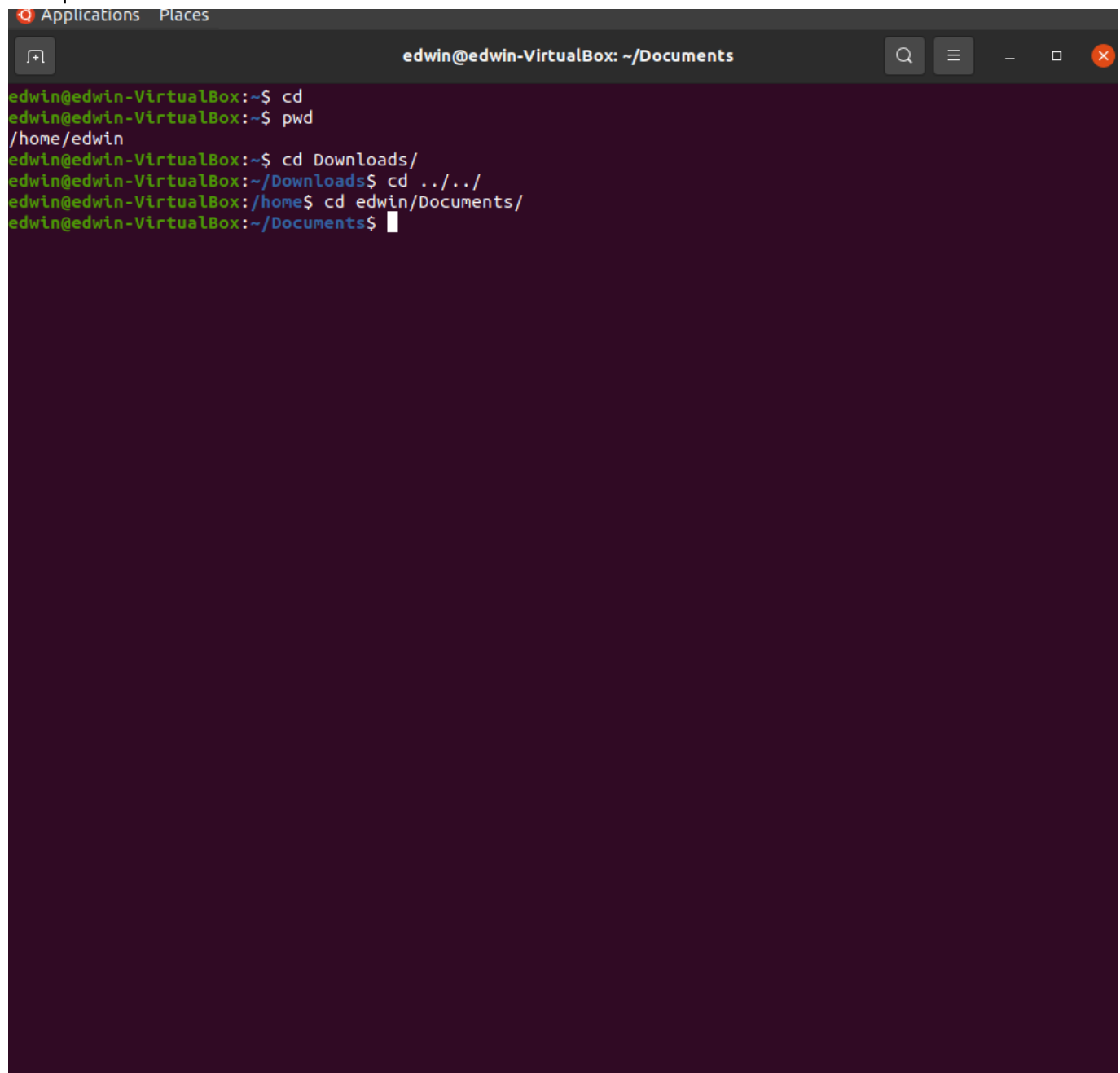
- Need to get 11.7 MB of archives. After this operation, 51.7 MB of additional disk space will be used.

Question 2



```
edwin@edwin-VirtualBox: /  
edwin@edwin-VirtualBox:~$ pwd  
/home/edwin  
edwin@edwin-VirtualBox:~$ /usr/share/themes  
bash: /usr/share/themes: Is a directory  
edwin@edwin-VirtualBox:~$ pwd  
/home/edwin  
edwin@edwin-VirtualBox:~$ cd ../../  
edwin@edwin-VirtualBox:/$ pwd  
/  
edwin@edwin-VirtualBox:/$ /etc/firefox/pref  
bash: /etc/firefox/pref: Is a directory  
edwin@edwin-VirtualBox:/$
```

###question 2.5

A terminal window titled 'edwin@edwin-VirtualBox: ~/Documents' with a dark background and light green text. The window shows a series of directory navigation commands and their outputs. The commands are: 'cd', 'pwd', 'cd Downloads/', 'cd ../../', and 'cd edwin/Documents/'. The outputs are: '~', '/home/edwin', '~/.Downloads', '~', and '~/.Documents'. The terminal window has a standard Ubuntu-style title bar with 'Applications' and 'Places' menus, and window control buttons (minimize, maximize, close).

```
edwin@edwin-VirtualBox:~$ cd
edwin@edwin-VirtualBox:~$ pwd
/home/edwin
edwin@edwin-VirtualBox:~$ cd Downloads/
edwin@edwin-VirtualBox:~/Downloads$ cd ../../
edwin@edwin-VirtualBox:/home$ cd edwin/Documents/
edwin@edwin-VirtualBox:~/Documents$
```

Question 3

```
edwin@edwin-VirtualBox: ~  
edwin@edwin-VirtualBox: ~/Documents$ cd  
edwin@edwin-VirtualBox:~$ pwd  
/home/edwin  
edwin@edwin-VirtualBox:~$ ls Downloads/  
Fortnite.jpg  mario.jpeg  Roblox.jpeg  
edwin@edwin-VirtualBox:~$ ls -a Downloads/  
.  ..  Fortnite.jpg  mario.jpeg  Roblox.jpeg  
edwin@edwin-VirtualBox:~$ ls -al Downloads/  
total 272  
drwxr-xr-x  2 edwin edwin  4096 Nov  2 12:52 .  
drwxr-xr-x 20 edwin edwin  4096 Nov  2 10:50 ..  
-rw-rw-r--  1 edwin edwin 233731 Nov  2 12:51 Fortnite.jpg  
-rw-rw-r--  1 edwin edwin  11319 Nov  2 12:51 mario.jpeg  
-rw-rw-r--  1 edwin edwin  18389 Nov  2 12:52 Roblox.jpeg  
edwin@edwin-VirtualBox:~$ ls -alh Downloads/  
total 272K  
drwxr-xr-x  2 edwin edwin 4.0K Nov  2 12:52 .  
drwxr-xr-x 20 edwin edwin 4.0K Nov  2 10:50 ..  
-rw-rw-r--  1 edwin edwin 229K Nov  2 12:51 Fortnite.jpg  
-rw-rw-r--  1 edwin edwin  12K Nov  2 12:51 mario.jpeg  
-rw-rw-r--  1 edwin edwin  18K Nov  2 12:52 Roblox.jpeg  
edwin@edwin-VirtualBox:~$ ls -lhG Downloads/  
total 264K  
-rw-rw-r--  1 229K Nov  2 12:51 Fortnite.jpg  
-rw-rw-r--  1  12K Nov  2 12:51 mario.jpeg  
-rw-rw-r--  1  18K Nov  2 12:52 Roblox.jpeg  
edwin@edwin-VirtualBox:~$
```

● lab3.md - cis106-fall2021 - Visual Studio Code

Question 4

```

edwin@edwin-VirtualBox: ~
edwin@edwin-VirtualBox:~$ cd
edwin@edwin-VirtualBox:~$ tree ~/Downloads/
home/edwin/Downloads/
├── Fortnite.jpg
├── mario.jpeg
└── Roblox.jpeg

directories, 3 files
edwin@edwin-VirtualBox:~$ tree -pugh ~/Downloads/
home/edwin/Downloads/
├── [-rw-rw-r-- edwin      edwin      228K]  Fortnite.jpg
├── [-rw-rw-r-- edwin      edwin       11K]  mario.jpeg
└── [-rw-rw-r-- edwin      edwin       18K]  Roblox.jpeg

directories, 3 files
edwin@edwin-VirtualBox:~$ tree -Dt ~/Downloads/
home/edwin/Downloads/
├── [Nov  2 12:51]  Fortnite.jpg
├── [Nov  2 12:51]  mario.jpeg
└── [Nov  2 12:52]  Roblox.jpeg

directories, 3 files
edwin@edwin-VirtualBox:~$ █

```

```

edwin@edwin-VirtualBox: ~
edwin@edwin-VirtualBox:~$ tree -H Downloads/
<!DOCTYPE html>
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <meta name="Author" content="Made by 'tree'">
  <meta name="GENERATOR" content="$Version: $ tree v1.8.0 (c) 1996 - 2018 by Steve Baker, Thomas Moore, Francisc Rocher, Florian Sesser, Kyosuke Tokoro $">
  <title>Directory Tree</title>
  <style type="text/css">
    <!--
      BODY { font-family : ariel, monospace, sans-serif; }
      P { font-weight: normal; font-family : ariel, monospace, sans-serif; color: black; background-color: transparent;}
      B { font-weight: normal; color: black; background-color: transparent;}
      A:visited { font-weight : normal; text-decoration : none; background-color : transparent; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
      A:link    { font-weight : normal; text-decoration : none; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
      A:hover   { color : #000000; font-weight : normal; text-decoration : underline; background-color : yellow; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
      A:active  { color : #000000; font-weight: normal; background-color : transparent; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
      .VERSION { font-size: small; font-family : arial, sans-serif; }
      .NORM     { color: black; background-color: transparent;}
      .FIFO     { color: purple; background-color: transparent;}
      .CHAR     { color: yellow; background-color: transparent;}
      .DIR      { color: blue; background-color: transparent;}
      .BLOCK    { color: yellow; background-color: transparent;}
    -->

```

```
.LINK { color: aqua; background-color: transparent;}
.SOCK { color: fuchsia;background-color: transparent;}
.EXEC { color: green; background-color: transparent;}
-->
</style>
</head>
<body>
  <h1>Directory Tree</h1><p>
  <a href="Downloads/">Downloads</a><br>
  |   <a href="Downloads//cis106-fall2021/">cis106-fall2021</a><br>
  |   |   <a href="Downloads//cis106-fall2021/imgs/">imgs</a><br>
  |   |   |   <a href="Downloads//cis106-fall2021/imgs/Capture1.5.png">Capture1.5.png</a><br>
  |   |   |   <a href="Downloads//cis106-fall2021/imgs/Capture2.5.png">Capture2.5.png</a><br>
  |   |   |   <a href="Downloads//cis106-fall2021/imgs/Capture2.png">Capture2.png</a><br>
  |   |   |   <a href="Downloads//cis106-fall2021/imgs/Capture3.png">Capture3.png</a><br>
  |   |   |   <a href="Downloads//cis106-fall2021/imgs/Capture4.png">Capture4.png</a><br>
```

```

Applications  Places

edwin@edwin-VirtualBox: ~

edwin@edwin-VirtualBox: ~
edwin@edwin-VirtualBox: ~

<a href="Downloads//cis106-fall2021/imgs/Capture5.png">Capture5.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Capture6.png">Capture6.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Capture7.png">Capture7.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Capture.png">Capture.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Lab1pic1.5.png">Lab1pic1.5.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Lab1pic2.png">Lab1pic2.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/Lab1pic3.png">Lab1pic3.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/lab3q2.5.png">lab3q2.5.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/lab3q2.png">lab3q2.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/lab3q3.png">lab3q3.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/lab3q4to3.png">lab3q4to3.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/pic2.png">pic2.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/pic3.png">pic3.png</a><br>
<a href="Downloads//cis106-fall2021/imgs/pic4.png">pic4.png</a><br>
<a href="Downloads//cis106-fall2021/labs/">labs</a><br>
<a href="Downloads//cis106-fall2021/labs/Lab1.md">Lab1.md</a><br>
<a href="Downloads//cis106-fall2021/labs/lab2.md">lab2.md</a><br>
<a href="Downloads//cis106-fall2021/labs/lab2.pdf">lab2.pdf</a><br>
<a href="Downloads//cis106-fall2021/labs/lab3.md">lab3.md</a><br>
<a href="Downloads//cis106-fall2021/notes/">notes</a><br>
<a href="Downloads//Desktop/">Desktop</a><br>
<a href="Downloads//Desktop/org.gnome.Terminal.desktop">org.gnome.Terminal.desktop</a><br>

<a href="Downloads//Documents/">Documents</a><br>
<a href="Downloads//Downloads/">Downloads</a><br>
<a href="Downloads//Downloads/Fortnite.jpg">Fortnite.jpg</a><br>
<a href="Downloads//Downloads/mario.jpeg">mario.jpeg</a><br>
<a href="Downloads//Downloads/Roblox.jpeg">Roblox.jpeg</a><br>
<a href="Downloads//Music/">Music</a><br>
<a href="Downloads//Pictures/">Pictures</a><br>
<a href="Downloads//Public/">Public</a><br>
<a href="Downloads//snap/">snap</a><br>
<a href="Downloads//snap/code/">code</a><br>
<a href="Downloads//snap/code/78/">78</a><br>
<a href="Downloads//snap/code/common/">common</a><br>
<a href="Downloads//snap/code/current/">current</a><br>
<a href="Downloads//Templates/">Templates</a><br>
<a href="Downloads//Videos/">Videos</a><br>
<br>
</p>
<p>
17 directories, 27 files
<br>
</p>

```

```

Applications  Places

edwin@edwin-VirtualBox: ~

edwin@edwin-VirtualBox: ~
edwin@edwin-VirtualBox: ~

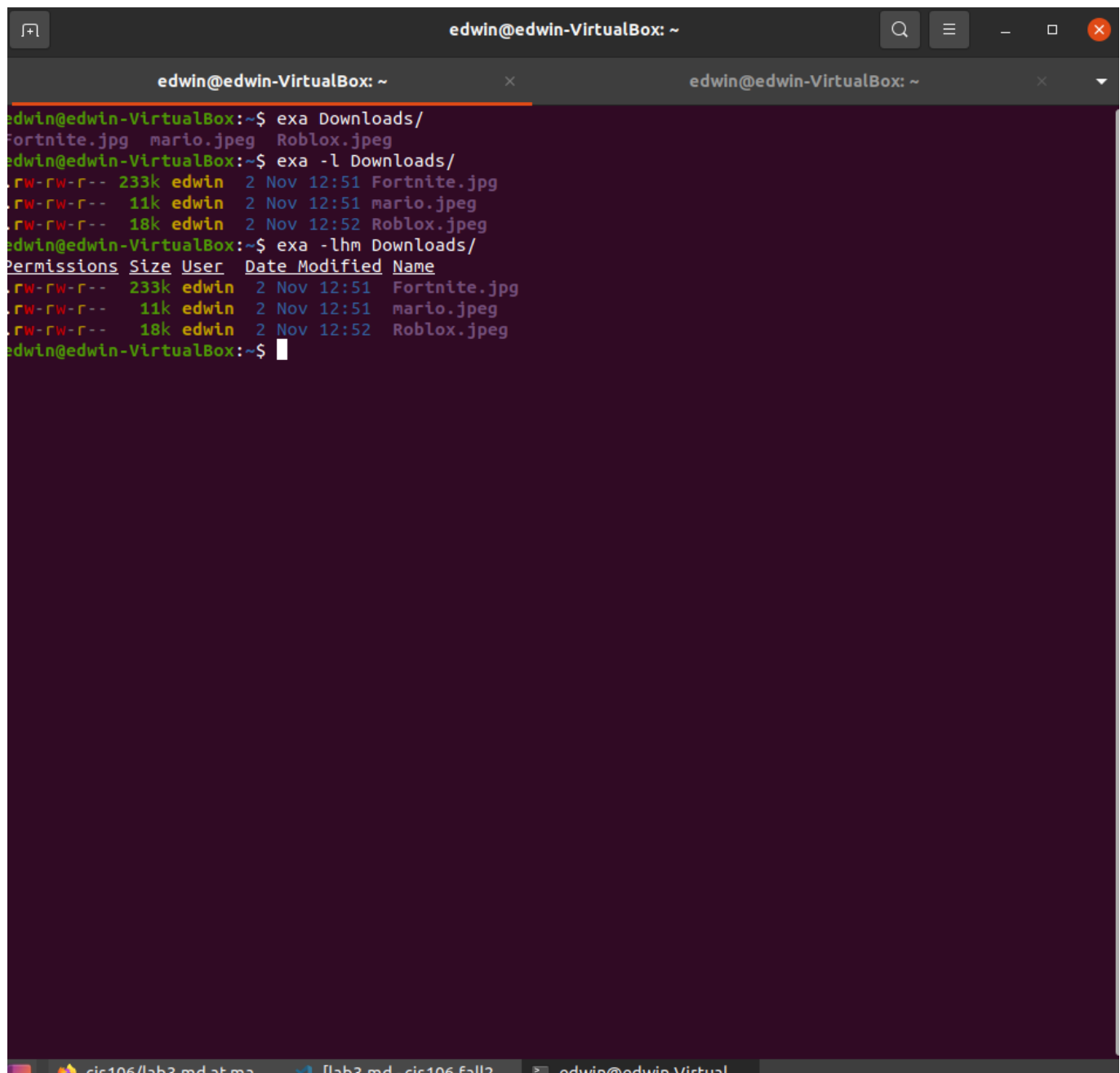
edwin@edwin-VirtualBox: ~
edwin@edwin-VirtualBox: ~

edwin@edwin-VirtualBox: ~$ tree -Ho Downloads/ webside.html
edwin@edwin-VirtualBox: ~$ ls
cis106-fall2021  Documents  Music  Public  Templates  webside.html
Desktop         Downloads  Pictures  snap  Videos
edwin@edwin-VirtualBox: ~$ xdg-open webside.html
edwin@edwin-VirtualBox: ~$

Directory Tree
Downloads/
├── cis106-fall2021
│   ├── imgs
│   │   ├── Capture1.5.png
│   │   ├── Capture2.5.png
│   │   ├── Capture2.png
│   │   ├── Capture3.png
│   │   ├── Capture4.png
│   │   ├── Capture5.png
│   │   ├── Capture6.png
│   │   ├── Capture7.png
│   │   ├── Capture.png
│   │   ├── Lab1pic1.5.png
│   │   ├── Lab1pic2.png
│   │   ├── Lab1pic3.png
│   │   ├── lab3q2.5.png
│   │   ├── lab3q2.png
│   │   ├── lab3q3.png
│   │   ├── lab3q4pt4.png
│   │   ├── lab3q4pt4sub2.png
│   │   ├── lab3q4to3.png
│   │   ├── pic2.png
│   │   ├── pic3.png
│   │   └── pic4.png
│   ├── labs
│   │   ├── Lab1.md
│   │   ├── lab2.md
│   │   ├── lab2.pdf
│   │   └── lab3.md
│   └── notes
├── Desktop
│   └── org.gnome.Terminal.desktop
├── Documents
├── Downloads
│   ├── Fortnite.jpg
│   ├── mario.jpeg
│   └── Roblox.jpeg
├── Music
├── Pictures
├── Public
├── snap
├── Templates
└── Videos

```

Question 5



A terminal window titled "edwin@edwin-VirtualBox: ~" with standard window controls. The terminal shows the following commands and output:

```
edwin@edwin-VirtualBox:~$ exa Downloads/  
Fortnite.jpg  mario.jpeg  Roblox.jpeg  
edwin@edwin-VirtualBox:~$ exa -l Downloads/  
-rw-rw-r-- 233k edwin  2 Nov 12:51 Fortnite.jpg  
-rw-rw-r--  11k edwin  2 Nov 12:51 mario.jpeg  
-rw-rw-r--  18k edwin  2 Nov 12:52 Roblox.jpeg  
edwin@edwin-VirtualBox:~$ exa -lhm Downloads/  
Permissions Size User  Date Modified Name  
-rw-rw-r-- 233k edwin  2 Nov 12:51  Fortnite.jpg  
-rw-rw-r--  11k edwin  2 Nov 12:51  mario.jpeg  
-rw-rw-r--  18k edwin  2 Nov 12:52  Roblox.jpeg  
edwin@edwin-VirtualBox:~$
```

The terminal window is part of a desktop environment with other tabs visible at the bottom: "cis106/lab3.md at ma...", "[lab3.md - cis106-fall2...", and "edwin@edwin-Virtual..."