

## Question 1: Creating Files and Directories

```
thaddeus44967@CIS106-VirtualBox: ~  
$ mkdir lab5  
thaddeus44967@CIS106-VirtualBox: ~$ pwd  
/home/thaddeus44967  
thaddeus44967@CIS106-VirtualBox: ~$ cd lab5  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ pwd  
/home/thaddeus44967/lab5  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ mkdir pets docs songs  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ ls  
docs  pets  songs  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ mkdir pets/new pets/old songs/new songs/old docs/new docs/old  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ tree  
.  
├── docs  
│   ├── new  
│   └── old  
├── pets  
│   ├── new  
│   └── old  
└── songs  
    ├── new  
    └── old  
0 directories, 0 files  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ touch pets/new/file1 pets/new/file2 pets/new/file3 pets/old/file1 pets/old/file2 pets/old/file3  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ touch songs/new/file1 songs/new/file2 songs/new/file3 songs/old/file1 songs/old/file2 songs/old/file3  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ touch docs/new/file1 docs/new/file2 docs/new/file3 docs/old/file1 docs/old/file2 docs/old/file3  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ cd ../  
thaddeus44967@CIS106-VirtualBox: ~$ cd lab5  
thaddeus44967@CIS106-VirtualBox: ~/lab5$ tree  
.  
├── docs  
│   ├── new  
│   │   ├── file1  
│   │   ├── file2  
│   │   └── file3  
│   └── old  
│       ├── file1  
│       ├── file2  
│       └── file3  
├── pets  
│   ├── new  
│   │   ├── file1  
│   │   ├── file2  
│   │   └── file3  
│   └── old  
│       ├── file1  
│       ├── file2  
│       └── file3  
└── songs  
    ├── new  
    │   ├── file1  
    │   ├── file2  
    │   └── file3  
    └── old  
        ├── file1  
        ├── file2  
        └── file3  
0 directories, 18 files  
thaddeus44967@CIS106-VirtualBox: ~$
```

## Question 2: Removing Files and Directories

```
thaddeus44967@CIS106-VirtualBox: /srv  
$ cd /srv  
thaddeus44967@CIS106-VirtualBox: /srv$ pwd  
/srv  
thaddeus44967@CIS106-VirtualBox: /srv$ rm ~/lab  
lab4files/ lab5/  
thaddeus44967@CIS106-VirtualBox: /srv$ rm ~/lab5/pets/new/file1  
thaddeus44967@CIS106-VirtualBox: /srv$ rm ~/lab5/pets/new/file2  
thaddeus44967@CIS106-VirtualBox: /srv$ rm ~/lab5/pets/new/file3  
thaddeus44967@CIS106-VirtualBox: /srv$ tree ~/lab5/pets  
/home/thaddeus44967/lab5/pets  
├── new  
└── old  
    ├── file1  
    ├── file2  
    └── file3  
0 directories, 3 files  
thaddeus44967@CIS106-VirtualBox: /srv$ rm -r ~/lab5/pets  
thaddeus44967@CIS106-VirtualBox: /srv$ rm -r ~/lab5/docs ~/lab5/songs  
thaddeus44967@CIS106-VirtualBox: /srv$ tree ~/lab5  
/home/thaddeus44967/lab5  
├── new  
└── old  
    ├── file1  
    ├── file2  
    └── file3  
0 directories, 0 files  
thaddeus44967@CIS106-VirtualBox: /srv$ rm -r ~/lab5  
thaddeus44967@CIS106-VirtualBox: /srv$ pwd  
/srv  
thaddeus44967@CIS106-VirtualBox: /srv$ ls ~/  
CIS106F22  core.2116  Desktop  Downloads  help  man  Pictures  snap  Videos  
CIS106F22.zip  core.2136  Documents  gitcommands.txt  lab4files  Music  Public  Templates  website  
thaddeus44967@CIS106-VirtualBox: /srv$
```

## Question 3: Moving Files and Directories

```

Applications Places
thaddeus44967@CS106-VirtualBox: ~
thaddeus44967@CS106-VirtualBox: $ ls
ls106f22  core.2136 Downloads lab4files lab_5-docs man Public Videos
ls106f22.zip Desktop gitcommands.txt lab5 lab_5-ings Music snap website
core.2116 Documents help lab_5-audio lab_5-video Pictures Templates
thaddeus44967@CS106-VirtualBox: $ ls lab5
another.mp4 fileA.txt image2.jpeg image5.gif song.mp3 Videoleaf.mp4
audio.mp3 fileB.txt image3.png Pexels.mp4 trivia.txt vita.txt
fileA.txt image1.jpeg image4.png silence.mp3 trivlaXYZ.txt wallpaperslab5
thaddeus44967@CS106-VirtualBox: $ mv another.mp4 song.p4 Videoleaf.mp4 lab_5-audio
mv: cannot stat 'another.mp4': No such file or directory
mv: cannot stat 'song.p4': No such file or directory
mv: cannot stat 'Videoleaf.mp4': No such file or directory
thaddeus44967@CS106-VirtualBox: $ ls lab_5-audio
thaddeus44967@CS106-VirtualBox: $ ls lab_5-audio
thaddeus44967@CS106-VirtualBox: $ cd lab_5-audio
thaddeus44967@CS106-VirtualBox: ~/lab_5-audio$ ls
thaddeus44967@CS106-VirtualBox: ~/lab_5-audio$ tree
tree
├── directories, 0 files
└── lab_5-audio$ cd ../
thaddeus44967@CS106-VirtualBox: $ mv lab5/another.mp4 lab5/Pexels.mp4 lab5/Videoleaf.mp4 lab_5-audio
thaddeus44967@CS106-VirtualBox: $ mv lab5/audio.mp3 lab5/silence.mp3 lab5/song.mp3 lab_5-audio
thaddeus44967@CS106-VirtualBox: $ ls lab5
fileA.txt fileB.txt image2.jpeg image4.png trivia.txt vita.txt
fileA.txt image1.jpeg image3.png image5.gif trivlaXYZ.txt wallpaperslab5
thaddeus44967@CS106-VirtualBox: $ mv lab5/fileA.txt lab5/trivia.txt lab5/trivlaXYZ.txt lab5/vita.txt lab_5-docs
thaddeus44967@CS106-VirtualBox: $ ls lab5
fileB.txt image1.jpeg image2.jpeg image3.png image4.png image5.gif wallpaperslab5
thaddeus44967@CS106-VirtualBox: $ mv lab5/fileB.txt lab_5-docs/
thaddeus44967@CS106-VirtualBox: $ mv lab5/image1.jpeg lab5/image2.jpeg lab5/image3.png lab5/image4.png lab5/image5.gif lab_5-ings
thaddeus44967@CS106-VirtualBox: $ mv lab5/another.mp4 lab_5-audio/Pexels.mp4 lab_5-audio/Videoleaf.mp4 lab_5-video
thaddeus44967@CS106-VirtualBox: $ mv lab_5-audio/another.mp4 lab_5-audio/Pexels.mp4 lab_5-audio/Videoleaf.mp4 lab_5-video
thaddeus44967@CS106-VirtualBox: $ ls lab5
wallpaperslab5
thaddeus44967@CS106-VirtualBox: $ mv lab5/wallpaperslab5/ ~/Pictures/
thaddeus44967@CS106-VirtualBox: $ mv Pictures/wallpaperslab5/ Pictures/NewWallpapers
thaddeus44967@CS106-VirtualBox: $ mv lab5 Lab-5
thaddeus44967@CS106-VirtualBox: $ ls
ls106f22  core.2136 Downloads lab4files lab_5-docs man Public Videos
ls106f22.zip Desktop gitcommands.txt lab_5 lab_5-ings Music snap website
core.2116 Documents help lab_5-audio lab_5-video Pictures Templates
thaddeus44967@CS106-VirtualBox: $ ls Pictures
NewWallpapers Screenshots-2.png Screenshots-4.png Screenshot-6.png Screenshot-8.png Wallpapers
Screenshots-1.png Screenshots-3.png Screenshots-5.png Screenshots-7.png Screenshot.png
thaddeus44967@CS106-VirtualBox: $ ls lab_5-audio
audio.mp3 silence.mp3 song.mp3
thaddeus44967@CS106-VirtualBox: $ ls lab_5-video
another.mp4 Pexels.mp4 Videoleaf.mp4
thaddeus44967@CS106-VirtualBox: $ ls lab_5-docs
fileA.txt fileB.txt fileC.txt trivia.txt trivlaXYZ.txt vita.txt
thaddeus44967@CS106-VirtualBox: $ ls lab_5-ings
ls: cannot access 'lab_5-ings': No such file or directory
thaddeus44967@CS106-VirtualBox: $ ls lab_5-ings
image1.jpeg image2.jpeg image3.png image4.png image5.gif
thaddeus44967@CS106-VirtualBox: $

```

## Question 4: Copying Files and Directories

```

thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cd Downloads/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ ls
code_1.71.2-1663191218_and64.deb  'lab(2).md'          pexels-aleksandar-pasaric-325185.jpg
'lab(1).md'                        lab4files.zip         pexels-maxime-francis-2246476.jpg
'lab2(1).md'                       lab.md                pexels-ricik-han-1719233.jpg
'lab2(2).md'                       my.lst               VSCodeUserSetup-ia32-1.71.2.exe
'lab2(3).md'                       Nanum_Gothic         wallpaper.jpg
lab2.md                             Nanum_Gothic.zip
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-aleksandar-pasaric-325185.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-maxime-francis-2246476.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-ricik-han-1719233.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cd ../
thaddeus44967@CIS106-VirtualBox: $

Applications  Places

thaddeus44967@CIS106-VirtualBox: ~/Pictures

thaddeus44967@CIS106-VirtualBox: ~/Pictures$ cd Downloads/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ ls
code_1.71.2-1663191218_and64.deb  'lab(2).md'          pexels-aleksandar-pasaric-325185.jpg
'lab(1).md'                        lab4files.zip         pexels-maxime-francis-2246476.jpg
'lab2(1).md'                       lab.md                pexels-ricik-han-1719233.jpg
'lab2(2).md'                       my.lst               VSCodeUserSetup-ia32-1.71.2.exe
'lab2(3).md'                       Nanum_Gothic         wallpaper.jpg
lab2.md                             Nanum_Gothic.zip
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-aleksandar-pasaric-325185.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-maxime-francis-2246476.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ mv pexels-ricik-han-1719233.jpg ~/Pictures/NewWallpapers/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cd ../
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cp Cyberpunk_Collection/ ~/Pictures/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cp Cyberpunk_Collection/ ~/Pictures/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ ls
code_1.71.2-1663191218_and64.deb  'lab(2).md'          pexels-aleksandar-pasaric-325185.jpg
'lab(1).md'                        lab4files.zip         pexels-maxime-francis-2246476.jpg
'lab2(1).md'                       lab.md                pexels-ricik-han-1719233.jpg
'lab2(2).md'                       my.lst               VSCodeUserSetup-ia32-1.71.2.exe
'lab2(3).md'                       Nanum_Gothic         wallpaper.jpg
lab2.md                             Nanum_Gothic.zip
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ rm Cyberpunk_Collection/
rm: cannot remove 'Cyberpunk_Collection/': is a directory
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ rm Cyberpunk_Collection/
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ ls
code_1.71.2-1663191218_and64.deb  'lab(2).md'          pexels-aleksandar-pasaric-325185.jpg
'lab(1).md'                        lab4files.zip         pexels-maxime-francis-2246476.jpg
'lab2(1).md'                       lab.md                pexels-ricik-han-1719233.jpg
'lab2(2).md'                       my.lst               VSCodeUserSetup-ia32-1.71.2.exe
'lab2(3).md'                       Nanum_Gothic         wallpaper.jpg
lab2.md                             Nanum_Gothic.zip
thaddeus44967@CIS106-VirtualBox: ~/Downloads$ cd
thaddeus44967@CIS106-VirtualBox: $ cd Pictures/
thaddeus44967@CIS106-VirtualBox: ~/Pictures$ ls
Cyberpunk_Collection  Screenshot-2.png  Screenshot-5.png  Screenshot-8.png
NewWallpapers        Screenshot-3.png  Screenshot-6.png  Screenshot.png
Screenshot-1.png      Screenshot-4.png  Screenshot-7.png  Wallpapers
thaddeus44967@CIS106-VirtualBox: ~/Pictures$

```

## Challenge Question

```

Applications  Places

thaddeus44967@CIS106-VirtualBox: ~
thaddeus44967@CIS106-VirtualBox:~$ ls
CIS106f22 Desktop help lab_5-docs Music Templates
CIS106f22.zip Documents lab4files lab_5-logs Pictures Videos
core.2116 Downloads lab_5-audio lab_5-video Public website
core.2136 gitcommands.txt lab5ChallengeQuestion man snap
thaddeus44967@CIS106-VirtualBox:~$ rm -r lab5ChallengeQuestion
rm: cannot remove 'lab5ChallengeQuestion': No such file or directory
thaddeus44967@CIS106-VirtualBox:~$ rm -r lab5ChallengeQuestion/
thaddeus44967@CIS106-VirtualBox:~$ ls
CIS106f22 Desktop Downloads lab4files lab_5-logs Music snap website
CIS106f22.zip Documents gitcommands.txt lab_5-audio lab_5-video Pictures Templates
core.2116 Downloads help lab_5-docs man Public Videos
thaddeus44967@CIS106-VirtualBox:~$ mkdir -p ~/lab5ChallengeQuestion/assets
mkdir: cannot create directory '/home/thaddeus44967/lab5ChallengeQuestion/assets': No such file or directory
thaddeus44967@CIS106-VirtualBox:~$ mkdir lab5ChallengeQuestion/assets
mkdir: cannot create directory 'lab5ChallengeQuestion/assets': No such file or directory
thaddeus44967@CIS106-VirtualBox:~$ mkdir -p lab5ChallengeQuestion/assets
thaddeus44967@CIS106-VirtualBox:~$ ls
CIS106f22 Desktop help lab_5-docs Music Templates
CIS106f22.zip Documents lab4files lab_5-logs Pictures Videos
core.2116 Downloads lab_5-audio lab_5-video Public website
core.2136 gitcommands.txt lab5ChallengeQuestion man snap
thaddeus44967@CIS106-VirtualBox:~$ cd Downloads/
thaddeus44967@CIS106-VirtualBox:~/Downloads$ ls
code_1.71.2-1063191218_and64.deb lab2(3).md lab.md pexels-cottonbro-8721342.jpg
lab(1).md lab2(2).md my.lst VSCodeUserSetup-ia32-1.71.2.exe
lab(2).md lab2(1).md Nanun_Gothic Wallpaper.jpg
thaddeus44967@CIS106-VirtualBox:~/Downloads$ mv pexels-cottonbro-8721342.jpg newPicture.png
thaddeus44967@CIS106-VirtualBox:~/Downloads$ mv newPicture.png ~/lab5ChallengeQuestion/assets
thaddeus44967@CIS106-VirtualBox:~/Downloads$ cd
thaddeus44967@CIS106-VirtualBox:~$ cd ../
thaddeus44967@CIS106-VirtualBox:~/home$ cd ../
thaddeus44967@CIS106-VirtualBox:~$ pwd
/
thaddeus44967@CIS106-VirtualBox:~$ touch ~/lab5ChallengeQuestion/site.html
thaddeus44967@CIS106-VirtualBox:~$ ls ~/lab5ChallengeQuestion/
assets site.html
thaddeus44967@CIS106-VirtualBox:~$ cd
thaddeus44967@CIS106-VirtualBox:~$ null > lab5ChallengeQuestion/site.html
Command 'null' not found, but can be installed with:
sudo snap install null
thaddeus44967@CIS106-VirtualBox:~$ open lab5ChallengeQuestion/site.html
thaddeus44967@CIS106-VirtualBox:~$ libva error: vaGetDriverNameByIndex() failed with unknown libva error, driver_name = (null)
[8541:1022/222319.890502:ERROR:gpu_memory_buffer_support_x11.cc(44)] dri3 extension not supported.
thaddeus44967@CIS106-VirtualBox:~$

```

Applications Places

deadmau5 - Work From Home x Lab 5 - Managing Files and Directories x Cyberpunk Photos, Downloaded x Lab 5 managing files and directories x ALEKS - Thaddeus Chestnut x command line - How to use x Document

File:///home/thaddeus44967/lab5ChallengeQuestion/site.html

## Challenge Question Lab 5