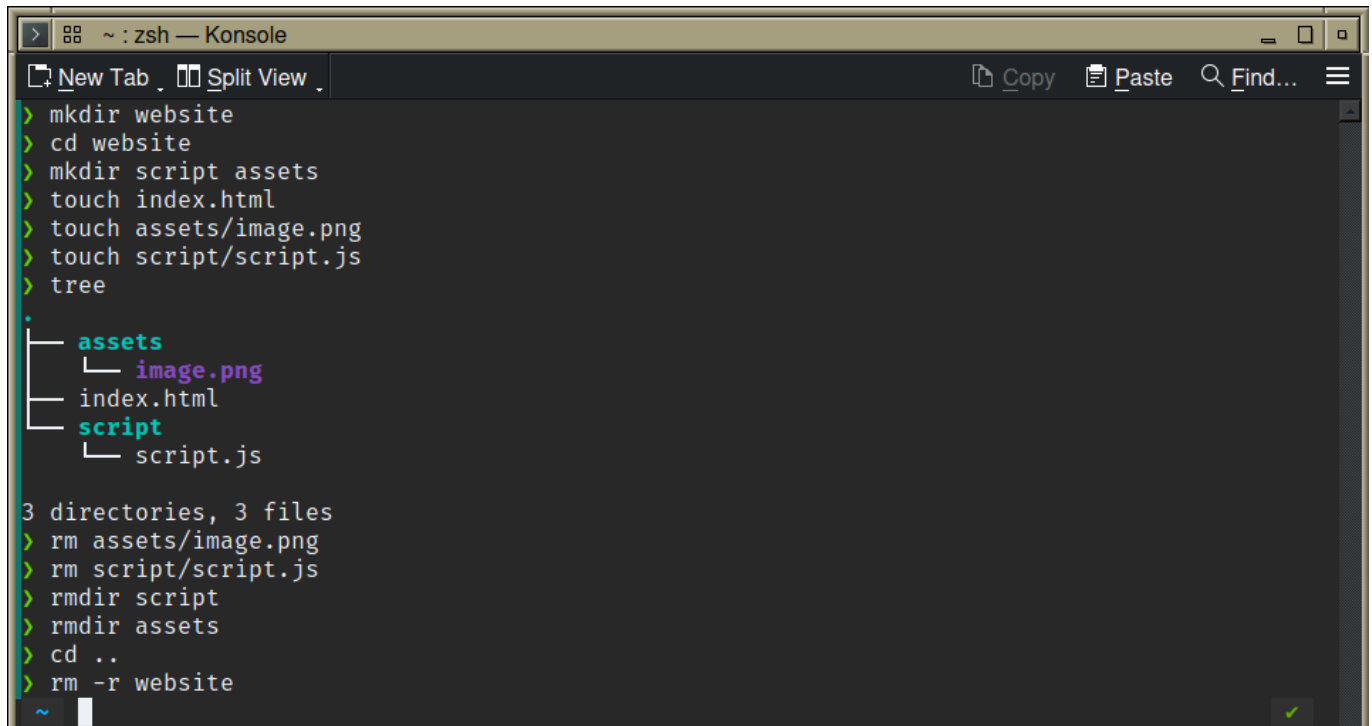


# Lab 6 Submission

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## Managing files and directories

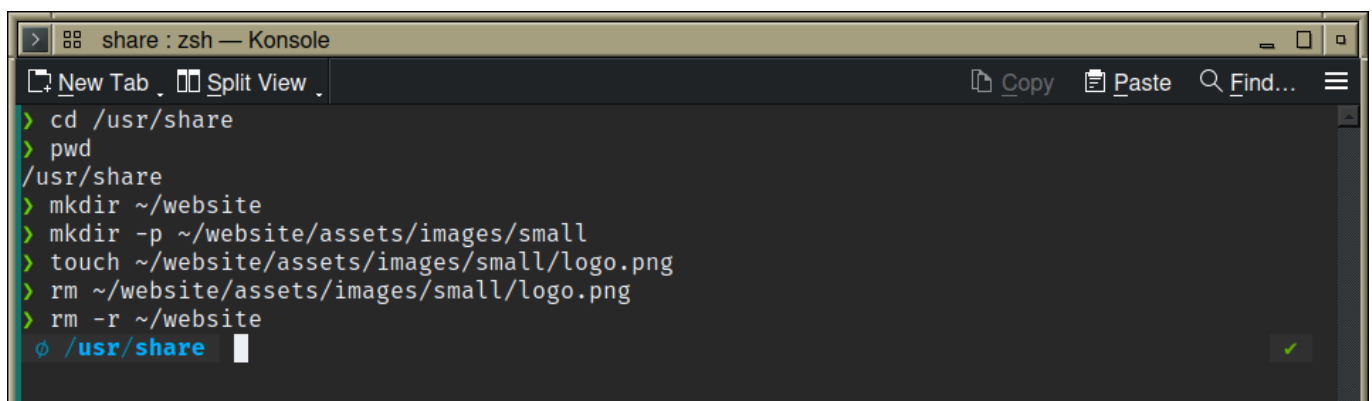
### q1.1 - Creating files and directories

A terminal window titled '~ : zsh — Konsole' showing a series of commands to create a directory structure. The commands are: mkdir website, cd website, mkdir script assets, touch index.html, touch assets/image.png, touch script/script.js, and tree. The tree command output shows a directory tree with 'assets' containing 'image.png', 'index.html', and 'script' containing 'script.js'. Below the tree output, it says '3 directories, 3 files'. Then, the commands rm assets/image.png, rm script/script.js, rmdir script, rmdir assets, cd .., and rm -r website are executed. The prompt is '~' with a cursor.

```
> mkdir website
> cd website
> mkdir script assets
> touch index.html
> touch assets/image.png
> touch script/script.js
> tree
.
├── assets
│   ├── image.png
│   └── index.html
└── script
    └── script.js

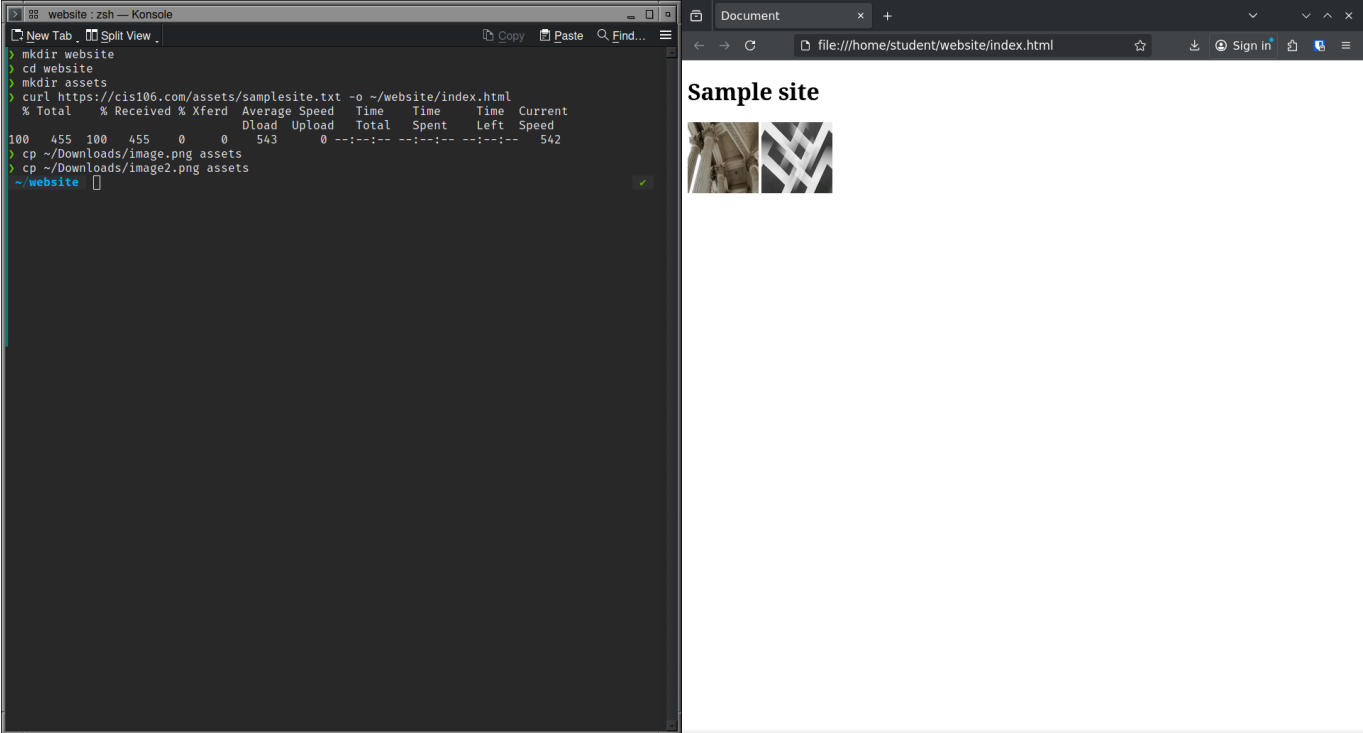
3 directories, 3 files
> rm assets/image.png
> rm script/script.js
> rmdir script
> rmdir assets
> cd ..
> rm -r website
~
```

### q1.2 - Creating files with parents

A terminal window titled 'share : zsh — Konsole' showing commands to create a directory structure. The commands are: cd /usr/share, pwd, mkdir ~/website, mkdir -p ~/website/assets/images/small, touch ~/website/assets/images/small/logo.png, rm ~/website/assets/images/small/logo.png, and rm -r ~/website. The prompt is 'φ /usr/share' with a cursor.

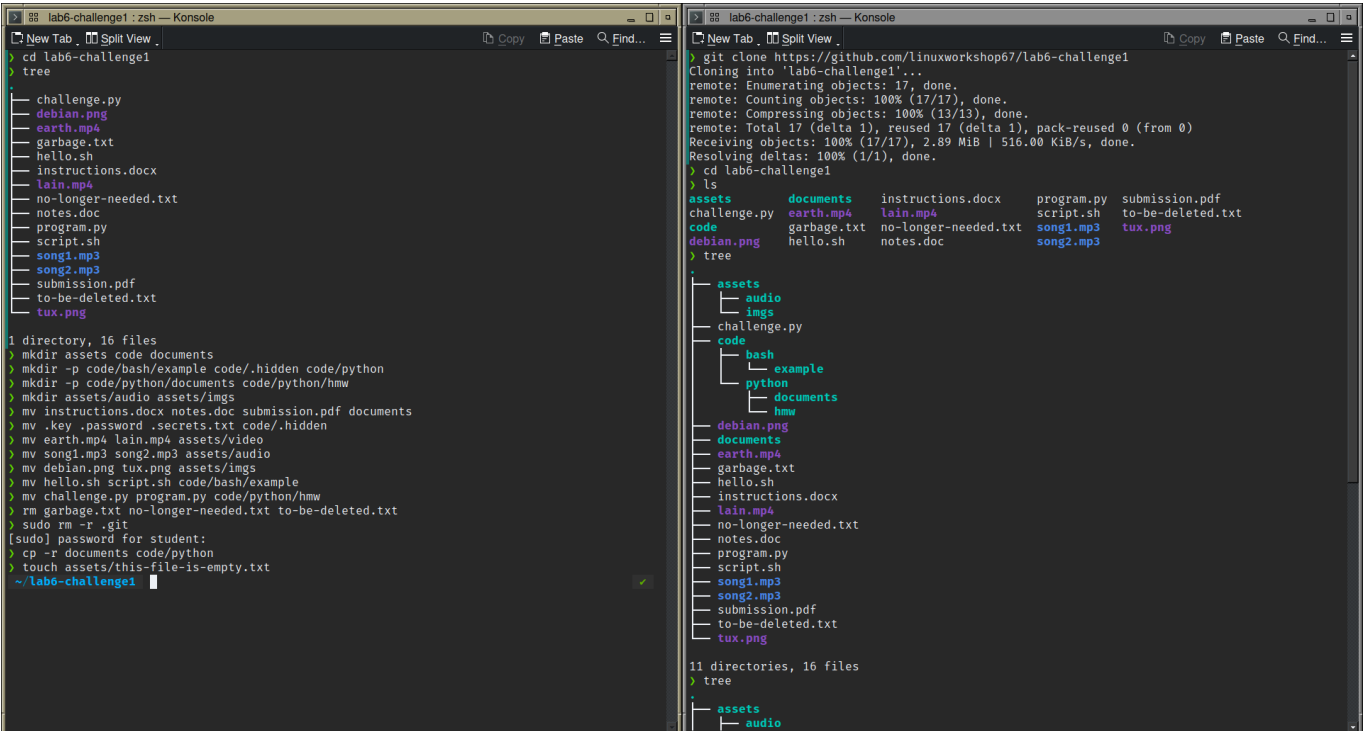
```
> cd /usr/share
> pwd
/usr/share
> mkdir ~/website
> mkdir -p ~/website/assets/images/small
> touch ~/website/assets/images/small/logo.png
> rm ~/website/assets/images/small/logo.png
> rm -r ~/website
φ /usr/share
```

### q1.3 - Using curl and cp



Challenge Question 1 - Organizing filetree

git clone and initial state



Creating Subdirectories

```

lab6-challenge1: zsh — Konsole
New Tab Split View
Copy Paste Find...
cd lab6-challenge1
tree

challenge.py
debian.png
earth.mp4
garbage.txt
hello.sh
instructions.docx
lain.mp4
no-longer-needed.txt
notes.doc
program.py
script.sh
song1.mp3
song2.mp3
submission.pdf
to-be-deleted.txt
tux.png

1 directory, 16 files
mkdir assets code documents
mkdir -p code/bash/example code/.hidden code/python
mkdir -p code/python/documents code/python/hmw
mkdir assets/audio assets/imgs
mv instructions.docx notes.doc submission.pdf documents
mv .key .password .secrets.txt code/.hidden
mv earth.mp4 lain.mp4 assets/video
mv song1.mp3 song2.mp3 assets/audio
mv debian.png tux.png assets/imgs
mv hello.sh script.sh code/bash/example
mv challenge.py program.py code/python/hmw
rm garbage.txt no-longer-needed.txt to-be-deleted.txt
sudo rm -r .git
[sudo] password for student:
cp -r documents code/python
touch assets/this-file-is-empty.txt
~/lab6-challenge1

lab6-challenge1: zsh — Konsole
New Tab Split View
Copy Paste Find...
documents
earth.mp4
garbage.txt
hello.sh
instructions.docx
lain.mp4
no-longer-needed.txt
notes.doc
program.py
script.sh
song1.mp3
song2.mp3
submission.pdf
to-be-deleted.txt
tux.png

11 directories, 16 files
tree
assets
├── audio
│   ├── song1.mp3
│   └── song2.mp3
├── imgs
│   ├── debian.png
│   └── tux.png
└── video
    ├── earth.mp4
    └── lain.mp4
code
├── bash
│   ├── example
│   ├── python
│   ├── documents
│   └── hmw
├── debian.png
├── documents
│   ├── instructions.docx
│   ├── notes.doc
│   └── submission.pdf
├── earth.mp4
├── garbage.txt
├── hello.sh
├── lain.mp4
├── no-longer-needed.txt
├── program.py
├── script.sh
├── song1.mp3
├── song2.mp3
├── to-be-deleted.txt
└── tux.png

11 directories, 16 files
~/lab6-challenge1 main 13 ?1

```

## Moving files

```

lab6-challenge1: zsh — Konsole
New Tab Split View
Copy Paste Find...
cd lab6-challenge1
tree

challenge.py
debian.png
earth.mp4
garbage.txt
hello.sh
instructions.docx
lain.mp4
no-longer-needed.txt
notes.doc
program.py
script.sh
song1.mp3
song2.mp3
submission.pdf
to-be-deleted.txt
tux.png

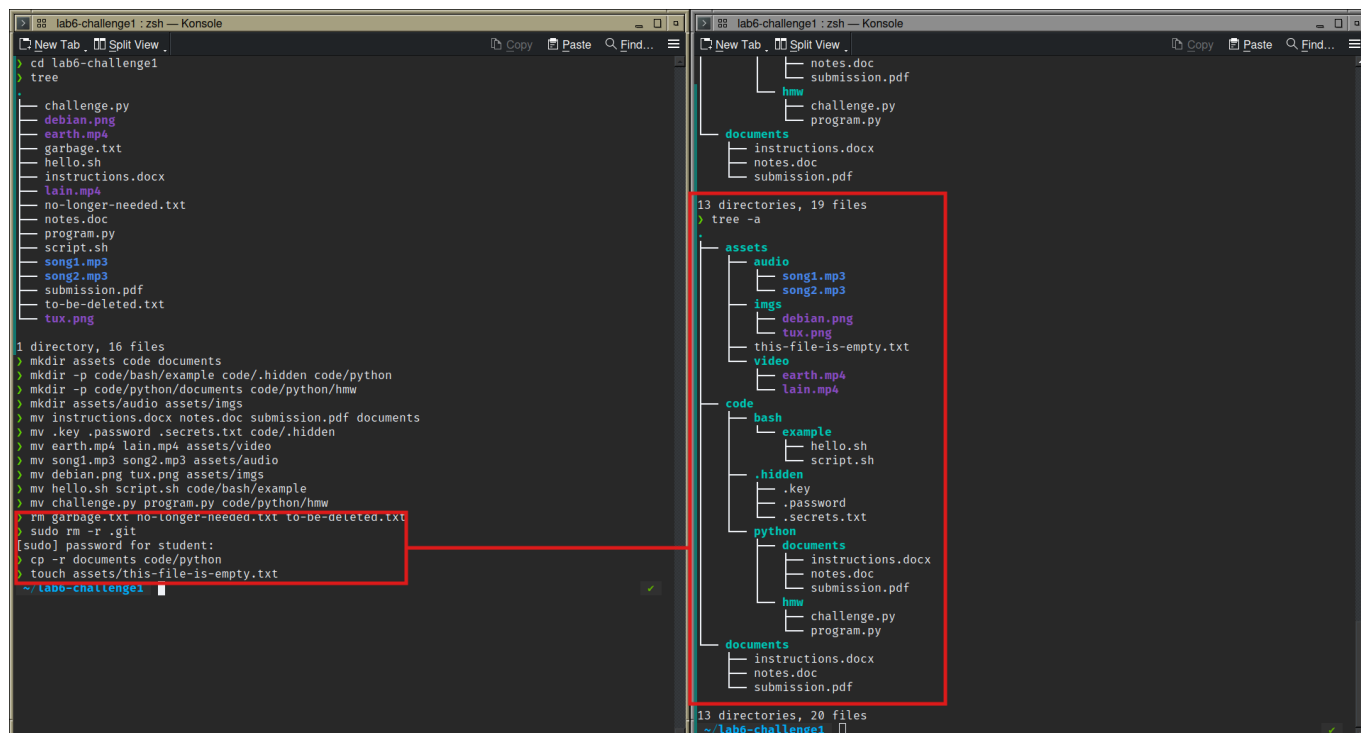
1 directory, 16 files
mkdir assets code documents
mkdir -p code/bash/example code/.hidden code/python
mkdir -p code/python/documents code/python/hmw
mkdir assets/audio assets/imgs
mv instructions.docx notes.doc submission.pdf documents
mv .key .password .secrets.txt code/.hidden
mv earth.mp4 lain.mp4 assets/video
mv song1.mp3 song2.mp3 assets/audio
mv debian.png tux.png assets/imgs
mv hello.sh script.sh code/bash/example
mv challenge.py program.py code/python/hmw
rm garbage.txt no-longer-needed.txt to-be-deleted.txt
sudo rm -r .git
[sudo] password for student:
cp -r documents code/python
touch assets/this-file-is-empty.txt
~/lab6-challenge1

lab6-challenge1: zsh — Konsole
New Tab Split View
Copy Paste Find...
ls -la lab6-challenge1
total 3536
drwxr-xr-x. 1 student student 374 Nov 4 23:38 .
drwxr-xr-x. 1 student student 808 Nov 4 23:39 ..
drwxr-xr-x. 1 student student 18 Nov 4 23:37 assets
-rw-r--r--. 1 student student 40 Nov 4 22:49 challenge.py
drwxr-xr-x. 1 student student 34 Nov 4 23:30 code
-rw-r--r--. 1 student student 44059 Nov 4 22:49 debian.png
drwxr-xr-x. 1 student student 80 Nov 4 23:38 documents
-rw-r--r--. 1 student student 1570024 Nov 4 22:49 earth.mp4
-rw-r--r--. 1 student student 21 Nov 4 22:49 garbage.txt
drwxr-xr-x. 1 student student 122 Nov 4 22:52 .git
-rw-r--r--. 1 student student 31 Nov 4 22:49 hello.sh
-rw-r--r--. 1 student student 51 Nov 4 22:49 .key
-rw-r--r--. 1 student student 473413 Nov 4 22:49 lain.mp4
-rw-r--r--. 1 student student 21 Nov 4 22:49 no-longer-needed.txt
-rw-r--r--. 1 student student 51 Nov 4 22:49 .password
-rw-r--r--. 1 student student 40 Nov 4 22:49 program.py
-rw-r--r--. 1 student student 31 Nov 4 22:49 script.sh
-rw-r--r--. 1 student student 50 Nov 4 22:49 .secrets.txt
-rw-r--r--. 1 student student 733645 Nov 4 22:49 song1.mp3
-rw-r--r--. 1 student student 733645 Nov 4 22:49 song2.mp3
-rw-r--r--. 1 student student 21 Nov 4 22:49 to-be-deleted.txt
-rw-r--r--. 1 student student 12100 Nov 4 22:49 tux.png
mkdir -p lab6-challenge1/assets/video
cd lab6-challenge1
tree

assets
├── audio
│   ├── song1.mp3
│   └── song2.mp3
├── imgs
│   ├── debian.png
│   └── tux.png
└── video
    ├── earth.mp4
    └── lain.mp4
challenge.py
code
├── bash
│   ├── example
│   ├── python
│   ├── documents
│   └── hmw
├── debian.png
├── documents
│   ├── instructions.docx
│   └── notes.doc

```

## Removing hidden and trash files, copying documents, making empty file



The image shows two terminal windows side-by-side. The left window shows a series of commands to create a directory structure and move files. The right window shows the resulting directory tree.

```
lab6-challenge1: zsh — Konsole
> cd lab6-challenge1
> tree
.
├── challenge.py
├── debian.png
├── earth.mp4
├── garbage.txt
├── hello.sh
├── instructions.docx
├── lain.mp4
├── no-longer-needed.txt
├── notes.doc
├── program.py
├── script.sh
├── song1.mp3
├── song2.mp3
├── submission.pdf
├── to-be-deleted.txt
└── tux.png

1 directory, 16 files
> mkdir assets code documents
> mkdir -p code/bash/example code/python
> mkdir -p code/python/documents code/python/hmw
> mkdir assets/audio assets/imgs
> mv instructions.docx notes.doc submission.pdf documents
> mv .key .password .secrets.txt code/.hidden
> mv earth.mp4 lain.mp4 assets/video
> mv song1.mp3 song2.mp3 assets/audio
> mv debian.png tux.png assets/imgs
> mv hello.sh script.sh code/bash/example
> mv challenge.py program.py code/python/hmw
> rm garbage.txt no-longer-needed.txt to-be-deleted.txt
> sudo rm -r .git
[sudo] password for student:
> cp -r documents code/python
> touch assets/this-file-is-empty.txt
~/lab6-challenge1
```

```
lab6-challenge1: zsh — Konsole
> tree -a
.
├── assets
│   ├── audio
│   │   ├── song1.mp3
│   │   └── song2.mp3
│   ├── imgs
│   │   ├── debian.png
│   │   ├── tux.png
│   │   └── this-file-is-empty.txt
│   └── video
│       ├── earth.mp4
│       └── lain.mp4
├── code
│   ├── bash
│   │   └── example
│   │       ├── hello.sh
│   │       └── script.sh
│   ├── .hidden
│   │   ├── .key
│   │   ├── .password
│   │   └── .secrets.txt
│   └── python
│       ├── documents
│       │   ├── instructions.docx
│       │   ├── notes.doc
│       │   └── submission.pdf
│       └── hmw
│           ├── challenge.py
│           └── program.py
└── documents
    ├── instructions.docx
    ├── notes.doc
    └── submission.pdf

13 directories, 19 files
> tree -a
.
├── assets
│   ├── audio
│   │   ├── song1.mp3
│   │   └── song2.mp3
│   ├── imgs
│   │   ├── debian.png
│   │   ├── tux.png
│   │   └── this-file-is-empty.txt
│   └── video
│       ├── earth.mp4
│       └── lain.mp4
├── code
│   ├── bash
│   │   └── example
│   │       ├── hello.sh
│   │       └── script.sh
│   ├── .hidden
│   │   ├── .key
│   │   ├── .password
│   │   └── .secrets.txt
│   └── python
│       ├── documents
│       │   ├── instructions.docx
│       │   ├── notes.doc
│       │   └── submission.pdf
│       └── hmw
│           ├── challenge.py
│           └── program.py
└── documents
    ├── instructions.docx
    ├── notes.doc
    └── submission.pdf

13 directories, 20 files
~/lab6-challenge1
```

## Challenge Question 2 - Web Development

