

# lab6

---

## question 1

```
1: rap@cis106: ~${TR} ▾
rap@cis106:~$ mkdir website
rap@cis106:~$ cd website/
rap@cis106:~/website$ mkdir scripts assets
rap@cis106:~/website$ touch index.html
rap@cis106:~/website$ touch assets/image.png
rap@cis106:~/website$ touch scripts/script.js
rap@cis106:~/website$ tree .
.
└── assets
    └── image.png
└── index.html
└── scripts
    └── script.js

3 directories, 3 files
rap@cis106:~/website$ rm scripts/script.js assets/image.png
rap@cis106:~/website$ rmdir scripts/ assets/
rap@cis106:~/website$ cd ..
rap@cis106:~$ rm -r website/
rap@cis106:~$ █
```

```
1: rap@cis106: /usr/share${TR} ▾
rap@cis106:~$ cd /usr/share
rap@cis106:/usr/share$ mkdir ~/website
rap@cis106:/usr/share$ mkdir -p ~/website/assets/images/small
rap@cis106:/usr/share$ touch ~/website/assets/images/small/logo.png
rap@cis106:/usr/share$ rm ~/website/assets/images/small/logo.png
rap@cis106:/usr/share$ rm -r ~/website/
rap@cis106:/usr/share$ █
```

```
2: rap@cis106:~/website/assets${TR} ~
rap@cis106:~$ mkdir -p ~/website/assets
rap@cis106:~$ curl https://cis106.com/assets/samplesite.txt -o ~/website/index.html
      % Total    % Received % Xferd  Average Speed   Time   Time     Time  Current
         Dload  Upload Total Spent   Spent    Left  Speed
100  455  100  455    0     0  4605      0 --:--:-- --:--:-- --:--:--  4595
rap@cis106:~$ mv ~/Downloads/*jpg ~/website/assets/
rap@cis106:~$ cd ~/website/assets
rap@cis106:~/website/assets$ mv mountain.jpg image.png
rap@cis106:~/website/assets$ mv building.jpg image2.png
rap@cis106:~/website/assets$ xdg-open ~/website/index.html
rap@cis106:~/website/assets$ █
```

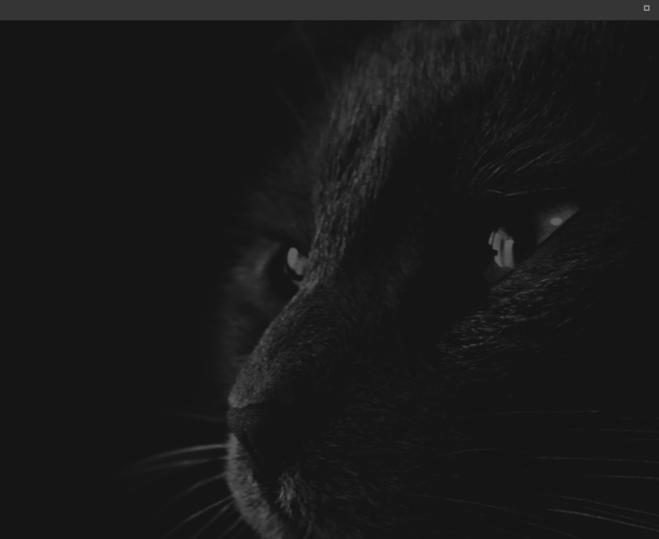
## Challenge question 1



```
Applications Nov 8 6:02 PM 22% 57% 0% 0.0 kB 0.0 kB ⓘ Applications

1: rap@cis106: ~/lab6-challenge1$ (TR) ~

rap@cis106: $ cd ~
rap@cis106: $ pwd
/home/rap
rap@cis106: $ git clone https://github.com/linuxworkshop67/lab6-challenge1
Cloning into 'lab6-challenge1'...
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 7% (1/13) remote: Compressing objects: 15% (2/13) remote: Compressing objects: 23% (3/13) remote: Compressing objects: 30% (4/13) remote: Compressing objects: 38% (5/13) remote: Compressing objects: 46% (6/13) remote: Compressing objects: 53% (7/13) remote: Compressing objects: 61% (8/13) remote: Compressing objects: 69% (9/13) remote: Compressing objects: 76% (10/13) remote: Compressing objects: 84% (11/13) remote: Compressing objects: 92% (12/13) remote: Compressing objects: 100% (13/13), done.
remote: Total 17 (delta 1), reused 17 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (17/17), 2.89 MiB | 24.29 MiB/s, done.
Resolving deltas: 100% (1/1), done.
rap@cis106: $ ls
cis106      essentials.sh.2    marstenHouse    snap
colors       games             Music           snapshots
data         la4.script3.sh   Pictures        student
Desktop     'Lab4 script3 sh.txt' practicels   Templates
Documents   lab5files        practicels.tar.xz Videos
Downloads   lab5files.zip    Public          vscode.sh
essentials.sh lab5files.zip.1 scripts        website
essentials.sh.1 lab6-challenge1   script.sh
rap@cis106: $ cd ~/lab6-challenge1
rap@cis106: ~/lab6-challenge1$ ls -a
.
challenge.py
debian.png
earth.mp4
garbage.txt
.git
hello.sh
instructions.docx
.key
```



```
Applications Nov 8 6:04 PM 31% 58% 0% 0.0 kB 0.0 kB
+ - x

1:rap@cis106:~/lab6-challenge1$ (TR) ${student}: rap@cis106: ~/lab6-challenge1rap@cis106: ~/lab6-challenge1

cis106 essentials.sh.2 marstenHouse snap
colors games Music snapshots
data la4.script3.sh Pictures student
Desktop 'Lab4 script3 sh.txt' practicels Templates
Documents lab5files practicels.tar.xz Videos
Downloads lab5files.zip Public vscode.sh
essentials.sh lab5files.zip.1 scripts website
essentials.sh.1 lab6-challenge1 scrIPT.sh

rap@cis106:~$ cd ~/lab6-challenge1
rap@cis106:~/lab6-challenge1$ ls -a
.

challenge.py
debian.png
earth.mp4
garbage.txt
.git
hello.sh
instructions.docx
.key
lain.mp4
no-longer-needed.txt
notes.doc
.password
program.py
script.sh
.secret.txt
song1.mp3
song2.mp3
submission.pdf
to-be-deleted.txt
tux.png
rap@cis106:~/lab6-challenge1$ sudo rm -rf .git
[sudo] password for rap:
rap@cis106:~/lab6-challenge1$
```

The screenshot shows a terminal window with two panes. The left pane displays a file browser showing the contents of a directory named 'lab6-challenge1'. The right pane shows the command-line history and output of commands run by the user.

**File Browser (Left Pane):**

```
1: rap@cis106:~/lab6-challenge1$ [TR] ~
script.sh
.secrets.txt
song1.mp3
song2.mp3
submission.pdf
to-be-deleted.txt
tux.png
rap@cis106:~/lab6-challenge1$ sudo rm -rf .git
[sudo] password for rap:
rap@cis106:~/lab6-challenge1$ mkdir -p assets/audio assets/imgs assets/video code/bas
h/example code/.hidden code/python/documents code/python/hmw documents
rap@cis106:~/lab6-challenge1$ mv song1.mp3 song2.mp3 assets/audio/
rap@cis106:~/lab6-challenge1$ mv debian.png tux.png assets/imgs/
rap@cis106:~/lab6-challenge1$ mv earth.mp4 lain.mp4 assets/video/
rap@cis106:~/lab6-challenge1$ mv this-file-is-empty.txt assets/
mv: cannot stat 'this-file-is-empty.txt': No such file or directory
rap@cis106:~/lab6-challenge1$ mv hello.sh script.sh code/bash/example/
rap@cis106:~/lab6-challenge1$ mv .key .password .secrets.txt code/.hidden/
rap@cis106:~/lab6-challenge1$ mv challenge.py program.py code/python/hmw/
rap@cis106:~/lab6-challenge1$ mv instructions.docx notes.doc submission.pdf documents/
rap@cis106:~/lab6-challenge1$ tree -a ~/lab6-challenge1
/home/rap/lab6-challenge1
├── assets
│   ├── audio
│   │   └── song1.mp3
│   ├── imgs
│   │   └── debian.png
│   ├── 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
└── code
    └── bash
```

**Terminal History and Output (Right Pane):**

```
Nov 8 6:26 PM
$[student]: rap@cis106:~$ [TR] ~
2: rap@cis106:~$ cp documents/* code/python/
cp: cannot stat 'documents/*': No such file or directory
rap@cis106:~$ touch assets/this-file-is-empty.txt
rap@cis106:~$ rm unwanted.txt
rm: cannot remove 'unwanted.txt': No such file or directory
rap@cis106:~$ rm temp.txt
rap@cis106:~$ tree -a ~/lab6-challenge1
/home/rap/lab6-challenge1
├── assets
│   ├── audio
│   │   └── song1.mp3
│   ├── imgs
│   │   └── debian.png
│   ├── 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
└── code
    └── bash
rap@cis106:~$ rm temp.txt
rap@cis106:~$ tree -a ~/lab6-challenge1
/home/rap/lab6-challenge1
├── assets
│   ├── audio
│   │   └── song1.mp3
│   ├── imgs
│   │   └── debian.png
│   ├── 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
└── code
    └── bash
rap@cis106:~$ rm temp.txt
rap@cis106:~$ tree -a ~/lab6-challenge1
/home/rap/lab6-challenge1
├── assets
│   ├── audio
│   │   └── song1.mp3
│   ├── imgs
│   │   └── debian.png
│   ├── 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
└── code
    └── bash
rap@cis106:~$ rm temp.txt
rap@cis106:~$ tree -a ~/lab6-challenge1
/home/rap/lab6-challenge1
└── garbage.txt
no longer needed +ut
```

```
song1.mp3
song2.mp3
imgs
  debian.png
  tux.png
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
garbage.txt
no-longer-needed.txt
to-be-deleted.txt

13 directories, 22 files
rap@cis106:~$
```

Challenge question 2

```
rap@cis106:~$ cd ~
rap@cis106:~$ git clone https://github.com/linuxworkshop67/lab6-challenge2
Cloning into 'lab6-challenge2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: remote: Counting objects:remote: Counting objects:remote: Counting objects: 100% (3/3), done.
remote: Compressing objecremote: Compressing objecremote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 33% (Receiving objects: 66% (Receiving objects: 100% (Receiving objects: 100% (3/3), done.
rap@cis106:~$ cd ~/lab6-challenge2
rap@cis106:~/Lab6-challenge2$ ls
index.html
rap@cis106:~/lab6-challenge2$ mv ~/Downloads/bird.jpg ~/lab6-challenge2/img1.jpg
rap@cis106:~/Lab6-challenge2$ mv ~/Downloads/window.jpg ~/lab6-challenge2/img2.jpg
rap@cis106:~/lab6-challenge2$ mv ~/Downloads/flower.jpg ~/lab6-challenge2/img3.jpg
rap@cis106:~/lab6-challenge2$ ls ~/lab6-challenge2
img1.jpg img3.jpg
img2.jpg index.html
rap@cis106:~/lab6-challenge2$ firefox ~/lab6-challenge2/index.html &
[1] 3875
rap@cis106:~/Lab6-challenge2$ history | tail -n 20
938 mv *.html src/
939 cp README.md docs/
```

```
941 sudo rm -rf .git
942 tree -a ~/labs-challenge1
943 tree -a ~/lab6-challenge1
944 cd ~
945 pwd
946 git clone https://github.com/linuxworkshop67/lab6-challenge1
947 rm -rf ~/lab6-challenge1
948 cd ~
949 git clone https://github.com/linuxworkshop67/lab6-challenge2
950 cd ~/lab6-challenge2
951 ls
952 mv ~/Downloads/bird.jpg ~/lab6-challenge2/img1.jpg
953 mv ~/Downloads/window.jpg ~/lab6-challenge2/img2.jpg
954 mv ~/Downloads/flower.jpg ~/lab6-challenge2/img3.jpg
955 ls ~/lab6-challenge2
956 firefox ~/lab6-challenge2/index.html &
957 history | tail -n 20
[1]+ Done firefox ~/lab6-challenge2/index.html
rap@cis106:~/lab6-challenge2$
```

