

Lab 6 Submission

Managing files and directories

q1.1 - Creating files and directories

```
~ : zsh — Konsole
New Tab Split View
> 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

```
share : zsh — Konsole
New Tab Split View
> 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
∅ /usr/share
```

q1.3 - Using curl and cp

The terminal window shows the following commands:

```

> mkdir website
> cd website
> mkdir assets
> curl https://cis106.com/assets/samplesite.txt -o ~/website/index.html
% Total    % Received % Xferd  Average Speed   Time   Time  Current
%          %          %       Dload  Upload  Total Spent   Left  Speed
100  455  100  455  0     0  543      0 --:--:--:--:--:-- 542
> cp ~/Downloads/image.png assets
> cp ~/Downloads/image2.png assets
~/.website

```

The browser window shows a "Sample site" with two images.

Challenge Question 1 - Organizing filetree

git clone and initial state

The left terminal window shows the initial state of the challenge directory:

```

> 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

```

The right terminal window shows the git repository state:

```

> 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: 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 | 516.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
> cd lab6-challenge1
> ls
assets      documents      instructions.docx      program.py      submission.pdf
challenge.py  earth.mp4      lain.mp4           script.sh      to-be-deleted.txt
code         garbage.txt    no-longer-needed.txt  song1.mp3      tux.png
debian.png   hello.sh      notes.doc          song2.mp3
> tree
.
├── assets
│   └── audio
│       └── tux.png
├── challenge.py
├── code
│   ├── bash
│   │   └── example
│   │       ├── python
│   │       │   └── documents
│   │       └── hmw
│   ├── debian.png
│   ├── 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
        └── tux.png

```

Creating Subdirectories

The left terminal window shows a directory tree for 'lab6-challenge1' with files like 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, and tux.png. A red box highlights the command history area where files are being moved.

The right terminal window shows a more complex directory structure with assets, code, documents, and various media files. A red box highlights the directory structure.

```

New Tab Split View
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

New Tab Split View
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
tux.png

11 directories, 16 files
tree

assets
audio
imgs
challenge.py
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 3 ?1

```

Moving files

The left terminal window shows the same initial directory structure as the first screenshot, with a red box highlighting the command history for moving files.

The right terminal window shows the final state of the directory structure after the moves. A red box highlights the resulting structure.

```

New Tab Split View
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

New Tab Split View
ls -la lab6-challenge1
total 3536
drwxr-xr-x. 1 student student 374 Nov 4 23:38 .
drwx----- 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 58 Nov 4 22:49 secrets.txt
-rw-r--r--. 3 student student 733645 Nov 4 22:49 song1.mp3
-rw-r--r--. 3 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 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
documents
instructions.docx
notes.doc


```

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

The left terminal window shows the command `tree` output:

```

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

```

The right terminal window shows the command `tree -a` output:

```

notes.doc
submission.pdf
hmw
challenge.py
program.py
documents
instructions.docx
notes.doc
submission.pdf
13 directories, 19 files
~/lab6-challenge1

```

A red box highlights the command `rm garbage.txt no-longer-needed.txt to-be-deleted.txt` in the left terminal and the resulting tree structure in the right terminal.

Challenge Question 2 - Web Development

The top-left terminal window shows the command `ls -la` output:

```

drwxr-xr-x. 1 student student 122 Nov  9 20:40 .git
-rw-r--r--. 1 student student 2634711 Nov  7 15:25 img1.jpg
-rw-r--r--. 1 student student 557434 Nov  7 15:25 img2.jpg
-rw-r--r--. 1 student student 1000203 Nov  7 15:25 img3.jpg
-rw-r--r--. 1 student student 2918 Nov  7 14:50 index.html
~/lab6-challenge2 > main ?3

```

The bottom-left terminal window shows file renaming commands:

```

cd Downloads
mv pexels-chaitaastic-2093323.jpg ~/lab6-challenge2/img1.jpg
mv pexels-d-ng-nhan-324384-1529881.jpg ~/lab6-challenge2/img2.jpg
mv pexels-irisier-1366957.jpg ~/lab6-challenge2/img3.jpg
~/Downloads

```

The right window shows a responsive slideshow interface displaying a night cityscape image. Navigation arrows are visible at the bottom of the image.