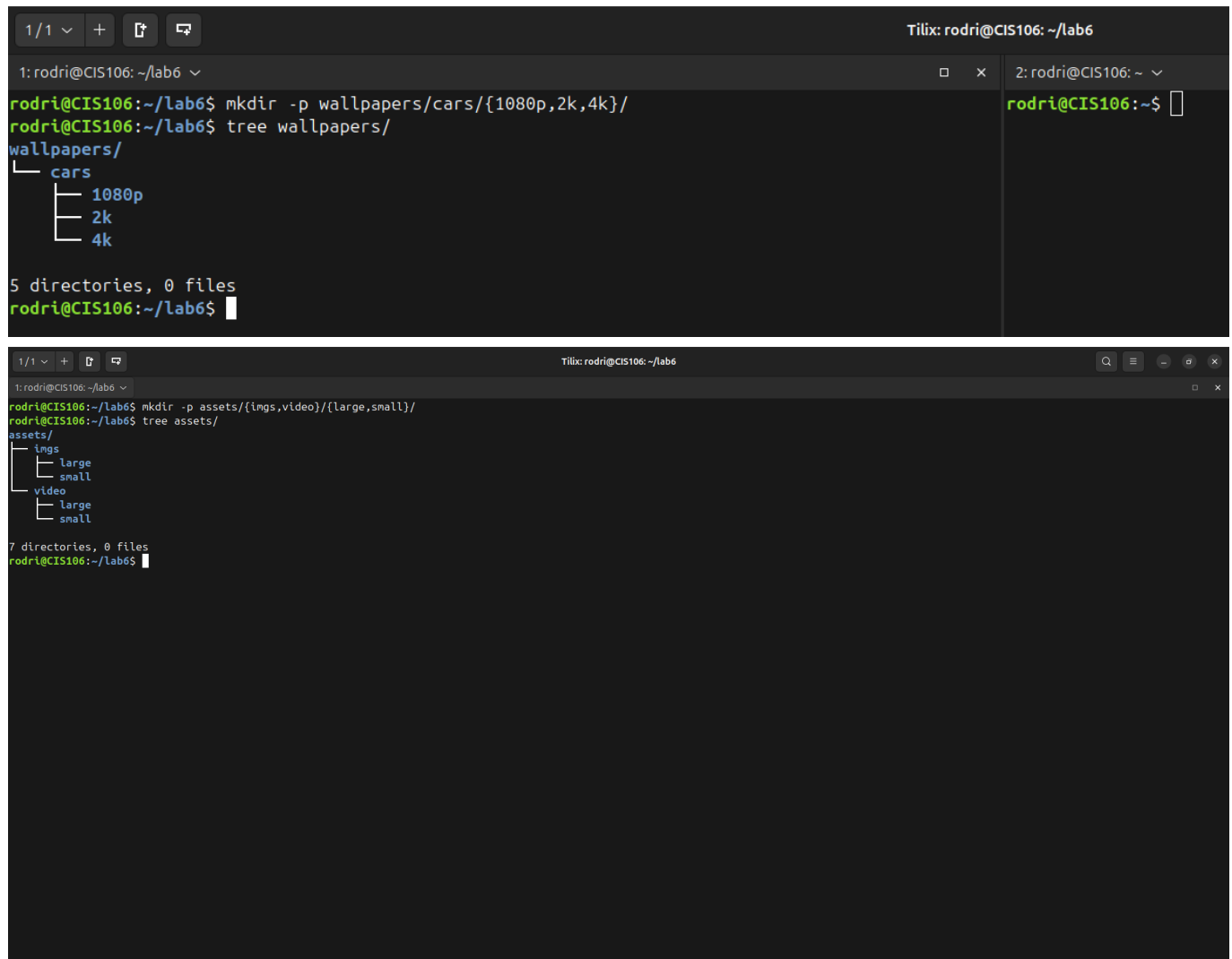


Question 1





The image shows two screenshots of a terminal window. The top screenshot shows the creation of a directory structure for wallpapers and its verification. The bottom screenshot shows the creation of a directory structure for assets and its verification.

```
1: rodri@CIS106: ~/lab6
rodri@CIS106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}/
rodri@CIS106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
5 directories, 0 files
rodri@CIS106:~/lab6$
```

```
2: rodri@CIS106: ~
rodri@CIS106:~$
```



```
1: rodri@CIS106: ~/lab6
rodri@CIS106:~/lab6$ mkdir -p assets/{ings,video}/{large,small}/
rodri@CIS106:~/lab6$ tree assets/
assets/
├── ings
│   ├── large
│   └── small
└── video
    ├── large
    └── small
7 directories, 0 files
rodri@CIS106:~/lab6$
```

```
t: rodri@CIS106: ~/lab6
rodri@CIS106:~/lab6$ mkdir -p docs/books/{history,math}/
rodri@CIS106:~/lab6$ mkdir -p docs/books/history/{fall,spring}
rodri@CIS106:~/lab6$ touch docs/books/history/{fall,spring}/book.pdf
rodri@CIS106:~/lab6$ mkdir -p docs/books/math/{2024,2025}
rodri@CIS106:~/lab6$ touch -p docs/books/math/{2024,2025}/book.pdf
rodri@CIS106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── 2024
│       └── 2025
└── 8 directories, 0 files
rodri@CIS106:~/lab6$ touch docs/books/history/{fall,spring}/book.pdf
rodri@CIS106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── 2024
│       │   └── book.pdf
│       └── 2025
│           └── book.pdf
└── 8 directories, 2 files
rodri@CIS106:~/lab6$ touch docs/books/math/{2024,2025}/book.pdf
rodri@CIS106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── 2024
│       │   ├── book.pdf
│       │   └── 2025
│       │       └── book.pdf
└── 8 directories, 4 files
rodri@CIS106:~/lab6$
```

```
t: rodri@CIS106: ~
rodri@CIS106:~$ touch -p ~/lab6/q3/{program.py,people.csv,data.xls}
touch: invalid option -- 'p'
Try 'touch --help' for more information.
rodri@CIS106:~$ ls lab6/q3/
_file0.old _file1.old _file2.old
rodri@CIS106:~$ touch ~/lab6/q3/{program.py,people.csv,data.xls}
rodri@CIS106:~$ ls lab6/q3/
data.xls _file0.old _file1.old _file2.old people.csv program.py
rodri@CIS106:~$ rm -r lab6/q3/_.*
rodri@CIS106:~$ tree lab6/q3/
lab6/q3/
├── data.xls
├── people.csv
└── program.py
1 directory, 3 files
rodri@CIS106:~$
```

Question 4 (Challenge Question)

```
Apr 13 21:10
TiliX: rodri@CIS106: ~

1: rodri@CIS106: ~/challenge-Lab6
2: rodri@CIS106: ~
3: rodri@CIS106: ~/challenge-Lab6

rodri@CIS106:~/challenge-Lab6$ ls
challenge-Lab6  file-sample_100kB.odt  file-sample_150kB.pdf  file-sample_1MB.doc  helloWorld.pl  helloWorld.py  helloWorld.rb  helloWorld.sh  music.mp3  sound_track.ogg  track.wav
rodri@CIS106:~/challenge-Lab6$ ls -la
total 16
drwxr-xr-x 12 rodri rodri 4096 Apr 13 21:10
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 challenge-Lab6
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 file-sample_100kB.odt
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 file-sample_150kB.pdf
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 file-sample_1MB.doc
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 helloWorld.pl
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 helloWorld.py
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 helloWorld.rb
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 helloWorld.sh
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 music.mp3
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 sound_track.ogg
-rw-r--r--  1 rodri rodri  100 Apr 13 21:10 track.wav
rodri@CIS106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   ├── mp3
│   └── ogg
│       └── sound_track.ogg
├── docs
│   ├── docx
│   │   ├── file-sample_100kB.odt
│   │   └── file-sample_1MB.doc
│   └── pdf
│       └── file-sample_150kB.pdf
├── xls
│   ├── helloWorld.pl
│   ├── helloWorld.py
│   ├── helloWorld.rb
│   └── helloWorld.sh
├── images
│   ├── gif
│   │   └── 2ein.gif
│   ├── jpg
│   │   └── 3ein.jpg
│   ├── png
│   │   └── 1ein.png
│   └── video
│       ├── mp4
│       │   ├── Breakers1.mp4
│       │   └── Sonicwings2.mp4
└── 16 directories, 15 files
rodri@CIS106:~/challenge-Lab6$ mv *.png images/png/
rodri@CIS106:~/challenge-Lab6$ mv *.jpg images/jpg/
mv: cannot move '3ein.jpg' to '/images/jpg/': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.jpg images/jpg
rodri@CIS106:~/challenge-Lab6$ mv *.aac audio/aac/
mv: cannot stat '*.aac': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.mp3 audio/mp3
rodri@CIS106:~/challenge-Lab6$ mv *.pdf docs/pdf/
mv: cannot stat '*.pdf': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.pdf docs/pdf
rodri@CIS106:~/challenge-Lab6$ mv *.docx docs/docx/
mv: cannot stat '*.docx': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.doc docs/docx/
mv: cannot move 'file-sample_1MB.doc' to '/docs/docx/': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.doc docs/docx/
rodri@CIS106:~/challenge-Lab6$ mv *.odt docs/docx/
rodri@CIS106:~/challenge-Lab6$ mv *.gif images/gif
rodri@CIS106:~/challenge-Lab6$ mv *.wav audio/wav
mv: cannot stat '*.wav': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv *.wav audio/wav
rodri@CIS106:~/challenge-Lab6$ mv *.xls docs/xls
rodri@CIS106:~/challenge-Lab6$ touch 2ein.gif
rodri@CIS106:~/challenge-Lab6$ mv *.gif images/gif/
rodri@CIS106:~/challenge-Lab6$ rm images/gif
rodri@CIS106:~/challenge-Lab6$ mkdir images/gif/
rodri@CIS106:~/challenge-Lab6$ mv *.gif images/gif
rodri@CIS106:~/challenge-Lab6$ rm audio/wav
rodri@CIS106:~/challenge-Lab6$ touch track.wav
rodri@CIS106:~/challenge-Lab6$ mkdir video
rodri@CIS106:~/challenge-Lab6$ mv *.mp4 video/
rodri@CIS106:~/challenge-Lab6$ mkdir audio/(ogg,wav)
rodri@CIS106:~/challenge-Lab6$ mv *.ogg audio/ogg/
rodri@CIS106:~/challenge-Lab6$ mv *.wav audio/wav/
rodri@CIS106:~/challenge-Lab6$ mv *.wav audio/wav/
rodri@CIS106:~/challenge-Lab6$ mkdir video/mp4
rodri@CIS106:~/challenge-Lab6$ mv *.mp4 video/mp4/
mk: command not found
rodri@CIS106:~/challenge-Lab6$ mv *.mp4 video/mp4/
rodri@CIS106:~/challenge-Lab6$ mv video/*.mp4 video/mp4/
mv: cannot stat '*.mp4': No such file or directory
rodri@CIS106:~/challenge-Lab6$ mv video/*.mp4 video/mp4/
rodri@CIS106:~/challenge-Lab6$
```