

# Lab 6

## Question I

```
1: federico-silva@federico-silva-VMware-Virtual-Platform: ~/lab6/q1
federico-silva@federico-silva-VMware-Virtual-Platform:~$ curl https://cis106.com/assets/lab6/lab6.sh | bash
% Total    % Received % Xferd  Average Speed   Time    Time     Time    Current
           % Done    0     0     0    0      0      0      0      0
100    471    100    471    0     0    2247    0 --:--:-- --:--:-- --:--:--   2253
federico-silva@federico-silva-VMware-Virtual-Platform:~$ cd lab6/
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ ls
q1 q2 q3
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ cd q1
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6/q1$ ls
access.log app.cfg ftp.log game.cfg ssh.log zebra.cnf
apache.log error.log fuse.cnf simple.cnf sudo.conf
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6/q1$ ls *.log
access.log apache.log error.log ftp.log ssh.log
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6/q1$ mkdir ../log-files
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6/q1$ mv *.log ../log-files/
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6/q1$

2: federico-silva@federico-silva-VMware-Virtual-Platform: ~
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls -l lab6/q1/*.*
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/app.cfg
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/fuse.conf
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/game.cfg
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/simple.cnf
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/sudo.conf
-rw-rw-r-- 1 federico-silva federico-silva 0 Apr 19 16:15 lab6/q1/zebra.cnf
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls -lgHs lab/q1/*.*
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls -lgHs lab6/q1/*.*
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/app.cfg
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/fuse.conf
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/game.cfg
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/simple.cnf
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/sudo.conf
-rw-rw-r-- 1 0 Apr 19 16:15 lab6/q1/zebra.cnf
federico-silva@federico-silva-VMware-Virtual-Platform:~$

3: federico-silva@federico-silva-VMware-Virtual-Platform: ~
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls -lgHs --time-style=%D lab6/q1/*.*
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/app.cfg
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/fuse.conf
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/game.cfg
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/simple.cnf
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/sudo.conf
0 -rw-rw-r-- 1 0 04/19/25 lab6/q1/zebra.cnf
federico-silva@federico-silva-VMware-Virtual-Platform:~$
```

## Question II

```
1: federico-silva@federico-silva-VMware-Virtual-Platform: ~
federico-silva@federico-silva-VMware-Virtual-Platform:~$ mkdir lab6/hidden-files/
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/q2/.??*
lab6/q2/.code lab6/q2/.helper lab6/q2/.index lab6/q2/.unit_test
federico-silva@federico-silva-VMware-Virtual-Platform:~$ cp lab6/q2/.??* lab6/hidden-files/
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/q2/*.*
lab6/q2/code.go lab6/q2/code.js lab6/q2/code.py lab6/q2/code.rb lab6/q2/code.sh
federico-silva@federico-silva-VMware-Virtual-Platform:~$ rm lab6/q2/*.*
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/q2/*.*
lab6/q2/Trip_doc.docx lab6/q2/Trip_doc.pptx lab6/q2/Trip_doc.vsd
federico-silva@federico-silva-VMware-Virtual-Platform:~$ rm lab6/q2/*.*
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/q2/[lr][aeiou]*[0-9].*
lab6/q2/last_0.txt lab6/q2/list_0.txt lab6/q2/lost_0.txt lab6/q2/rest_0.txt
lab6/q2/last_1.txt lab6/q2/list_1.txt lab6/q2/lost_1.txt lab6/q2/rest_1.txt
lab6/q2/last_2.txt lab6/q2/list_2.txt lab6/q2/lost_2.txt lab6/q2/rust_0.txt
lab6/q2/last_3.txt lab6/q2/list_3.txt lab6/q2/lost_3.txt lab6/q2/rust_1.txt
federico-silva@federico-silva-VMware-Virtual-Platform:~$ mkdir lab6/random
federico-silva@federico-silva-VMware-Virtual-Platform:~$ mv lab6/q2/[lr][aeiou]*[0-9].* lab6/random/
federico-silva@federico-silva-VMware-Virtual-Platform:~$ mv lab6/q2/[lr][aeiou]*[0-9].* lab6/random/
federico-silva@federico-silva-VMware-Virtual-Platform:~$ mv lab6/q2/[lr][aeiou]*[0-9].* lab6/random/
mv: cannot stat 'lab6/q2/[lr][aeiou]*[0-9].*': No such file or directory
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/q2/[lr][aeiou]*[0-9].*
ls: cannot access 'lab6/q2/[lr][aeiou]*[0-9].*': No such file or directory
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ls lab6/random/
last_0.txt last_2.txt list_0.txt list_2.txt lost_0.txt lost_2.txt rest_0.txt rust_0.txt
last_1.txt last_3.txt list_1.txt list_3.txt lost_1.txt lost_3.txt rest_1.txt rust_1.txt
federico-silva@federico-silva-VMware-Virtual-Platform:~$
```

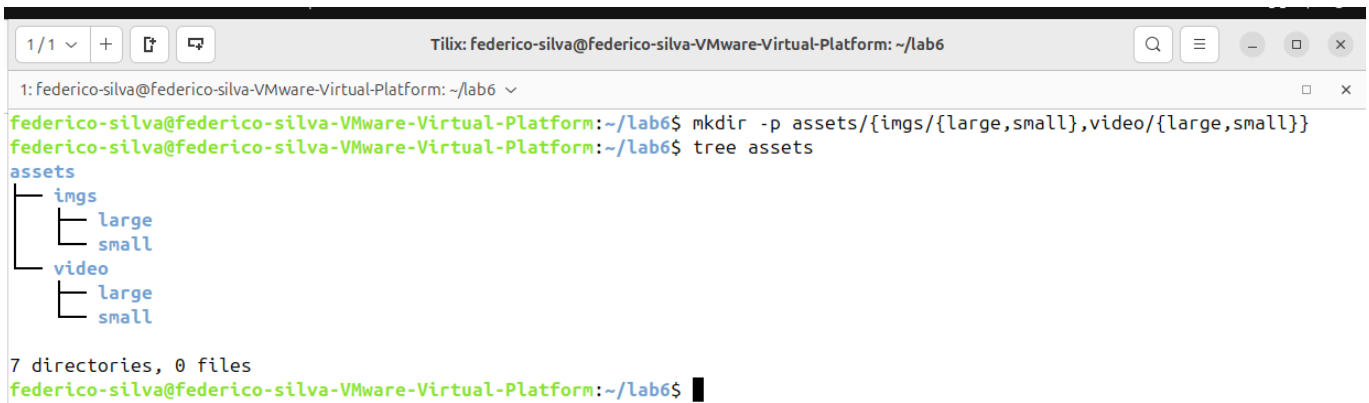
## Question III

```
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ tree wallpapers
wallpapers
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k

```

5 directories, 0 files

```
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$
```



```
1/1 + [?] [?] Tilix: federico-silva@federico-silva-VMware-Virtual-Platform: ~/lab6
1: federico-silva@federico-silva-VMware-Virtual-Platform: ~/lab6
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ mkdir -p assets/{imgs/{large,small},video/{large,small}}
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$ tree assets
assets
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small

```

7 directories, 0 files

```
federico-silva@federico-silva-VMware-Virtual-Platform:~/lab6$
```

```
1/1  +  [ ] [ ]  Tilix: federico-silva@federico-silva-VMware-Virtual-Platform: /  [ ] [ ] [ ] [ ] [ ]
1: federico-silva@federico-silva-VMware-Virtual-Platform: ~  [ ] [ ]
federico-silva@federico-silva-VMware-Virtual-Platform:~$ touch lab6/docs/books/{history/{fa
ll,spring},math/{2024,2025}}/book.pdf
federico-silva@federico-silva-VMware-Virtual-Platform:~$ tree lab6/docs/
lab6/docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── 2024
│       │   └── book.pdf
│       └── 2025
│           └── book.pdf
8 directories, 4 files
federico-silva@federico-silva-VMware-Virtual-Platform:~$ [ ]

2: federico-silva@federico-silva-VMware-Virtual-Platform: /  [ ] [ ]
federico-silva@federico-silva-VMware-Virtual-Platform:~$ cd /
federico-silva@federico-silva-VMware-Virtual-Platform:/$ touch ~/lab6/q3/{program.py,people.
csv,data.xls}
federico-silva@federico-silva-VMware-Virtual-Platform:/$ rm ~/lab6/q3/_file{0..2}.old
federico-silva@federico-silva-VMware-Virtual-Platform:/$ [ ]
```

## Challenge Question (Question IV)

```

1/1 1 2 3
Tilix: federico-silva@federico-silva-VMware-Virtual-Platform: ~/challenge-Lab6
1: federico-silva@federico-silva-VMware-Virtual-Platform: ~/challenge-Lab6
federico-silva@federico-silva-VMware-Virtual-Platform:~$ ~/challenge-Lab6
bash: /home/federico-silva/challenge-Lab6: Is a directory
federico-silva@federico-silva-VMware-Virtual-Platform:~$ cd ~/challenge-Lab6
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mkdir -p audio/{mp3,ogg,wav} docs/{doc,odt,pdf} images/{gif,jpg,png} video/{mp4} scripts/{pl,py,rb,sh}
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.mp4 video/mp4
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$

2: federico-silva@federico-silva-VMware-Virtual-Platform: ~/challenge-Lab6
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.mp3 audio/mp3/; mv *.ogg audio/ogg/; mv *.wav audio/wav/
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.doc docs/doc/; mv *.odt docs/odt/; mv *.pdf docs/pdf/
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.gif images/gif/; mv *.jpg images/jpg/; mv *.png images/png/
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.mp4 video/mp4/; mv *.pl scripts/pl/; mv *.py scripts/py/; mv *.rb scripts/rb/; mv *.sh scripts/sh/
mv: target 'video/mp4/': No such file or directory
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ mv *.mp4 video/mp4/; mv *.pl scripts/pl/; mv *.py scripts/py/; mv *.rb scripts/rb/; mv *.sh scripts/sh/
mv: target 'video/mp4/': No such file or directory
mv: cannot stat '*.pl': No such file or directory
mv: cannot stat '*.py': No such file or directory
mv: cannot stat '*.rb': No such file or directory
mv: cannot stat '*.sh': No such file or directory
federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$

federico-silva@federico-silva-VMware-Virtual-Platform:~/challenge-Lab6$ tree
tree
├── audio
│   ├── mp3
│   │   └── music.mp3
│   ├── ogg
│   │   └── sound_track.ogg
│   └── wav
│       └── track.wav
├── docs
│   ├── doc
│   │   └── file-sample_1MB.doc
│   ├── odt
│   │   └── file-sample_100kB.odt
│   └── pdf
│       └── file-sample_150kB.pdf
├── images
│   ├── gif
│   │   └── 2ein.gif
│   ├── jpg
│   │   └── 3ein.jpg
│   └── png
│       └── 1ein.png
├── scripts
│   ├── pl
│   │   └── helloWorld.pl
│   ├── py
│   │   └── helloWorld.py
│   ├── rb
│   │   └── helloWorld.rb
│   └── sh
│       └── helloWorld.sh
└── video
    └── mp4
        ├── Breakers1.mp4
        └── Sonicwings2.mp4

```