Questions

What are Command Options? Command options are commands followed by options that modify/enhance their behavior.

What are Command Arguments? Command arguments are commands followed by arguments, which are the items the command acts on. This can be a file or directory.

Which command is used for creating directories? `mkdir` is the command used for creating directories. The syntax is `mkdir` + `name of the directory` ***Examples***: `mkdir weekreport5`, `mkdir ~/Pictures/PicturesOfMyDog`, `mkdir Games`

What does the touch command do? The `touch` command is used for creating files. ***Examples***: `touch list`, `touch darksouls.py monsterhunterworld.txt gta5.png`, `touch ~/Downloads/MathHomework.txt`

How do you remove a file? The `rm` command is used for removing files. ***Example***: `rm list`

How do you remove a directory and can you remove non-empty directories in Linux? `rmdir` is the command used for removing directories. You cannot remove non-empty directories in Linux. ***Example***: `rmdir Games`

Explain the mv and cp command The `mv` command moves and renames directories. The formula for moving directories is `mv` command is `mv` + `source` + `destination`. The formula for renaming directories is `mv` + `file/directory to rename` + `new name`. ***Examples***: `mv Downloads/homework.txt Documents/`, `mv darksouls.py bloodborne.py`

The `cp` command copies files/directories from a source to a destination. The formula for `cp` is `cp` + `files to copy` + `destination`. Use `cp -r` to copy directories. ***Examples***: `cp Downloads/wallpapers.zip Pictures/`, `cp -r ~/Downloads/wallpapers ~/Pictures/`

Practice

Practice 1

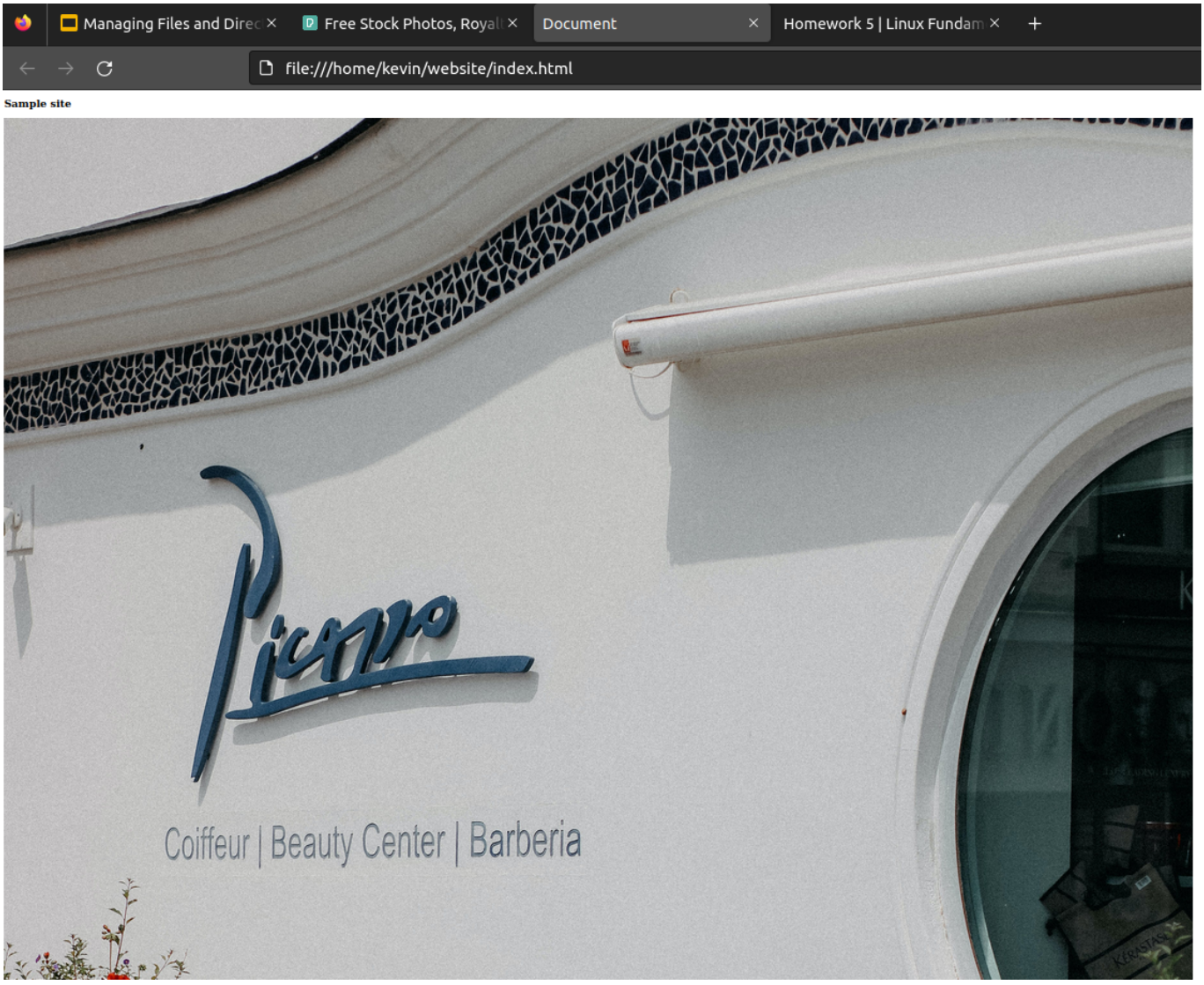
```
kevin@kevins-VirtualBox:~$ cd website
kevin@kevins-VirtualBox:~/website$ touch index.html
kevin@kevins-VirtualBox:~/website$ cd assets
kevin@kevins-VirtualBox:~/website/assets$ touch image.png
kevin@kevins-VirtualBox:~/website/assets$ ../
bash: ../: Is a directory
kevin@kevins-VirtualBox:~/website/assets$ cd ../
kevin@kevins-VirtualBox:~/website$ cd scripts
bash: cd: scripts: No such file or directory
kevin@kevins-VirtualBox:~/website$ cd script
kevin@kevins-VirtualBox:~/website/script$ touch script.js
kevin@kevins-VirtualBox:~/website/script$ tree ~/website
/home/kevin/website
├── assets
│   └── image.png
├── index.html
└── script
    └── script.js

2 directories, 3 files
kevin@kevins-VirtualBox:~/website/script$ rm script.js
kevin@kevins-VirtualBox:~/website/script$ rm ~/website/assets/image.png
kevin@kevins-VirtualBox:~/website/script$ rmdir ~/website/assets rmdir ~website/script
rmdir: failed to remove 'rmdir': No such file or directory
rmdir: failed to remove '~website/script': No such file or directory
kevin@kevins-VirtualBox:~/website/script$ cd ../
kevin@kevins-VirtualBox:~/website$ rmdir scripts assets
rmdir: failed to remove 'scripts': No such file or directory
rmdir: failed to remove 'assets': No such file or directory
kevin@kevins-VirtualBox:~/website$ rmdir script
kevin@kevins-VirtualBox:~/website$ rmdir assets
rmdir: failed to remove 'assets': No such file or directory
kevin@kevins-VirtualBox:~/website$ ../
bash: ../: Is a directory
kevin@kevins-VirtualBox:~/website$ cd ../
kevin@kevins-VirtualBox:~$ rmdir website
rmdir: failed to remove 'website': Directory not empty
kevin@kevins-VirtualBox:~$ cd website
kevin@kevins-VirtualBox:~/website$ rmdir assets
rmdir: failed to remove 'assets': No such file or directory
kevin@kevins-VirtualBox:~/website$ rm index.html
kevin@kevins-VirtualBox:~/website$ ../
bash: ../: Is a directory
kevin@kevins-VirtualBox:~/website$ cd ../
kevin@kevins-VirtualBox:~$ rmdir websites
rmdir: failed to remove 'websites': No such file or directory
kevin@kevins-VirtualBox:~$ rmdir website
```

Practice 2

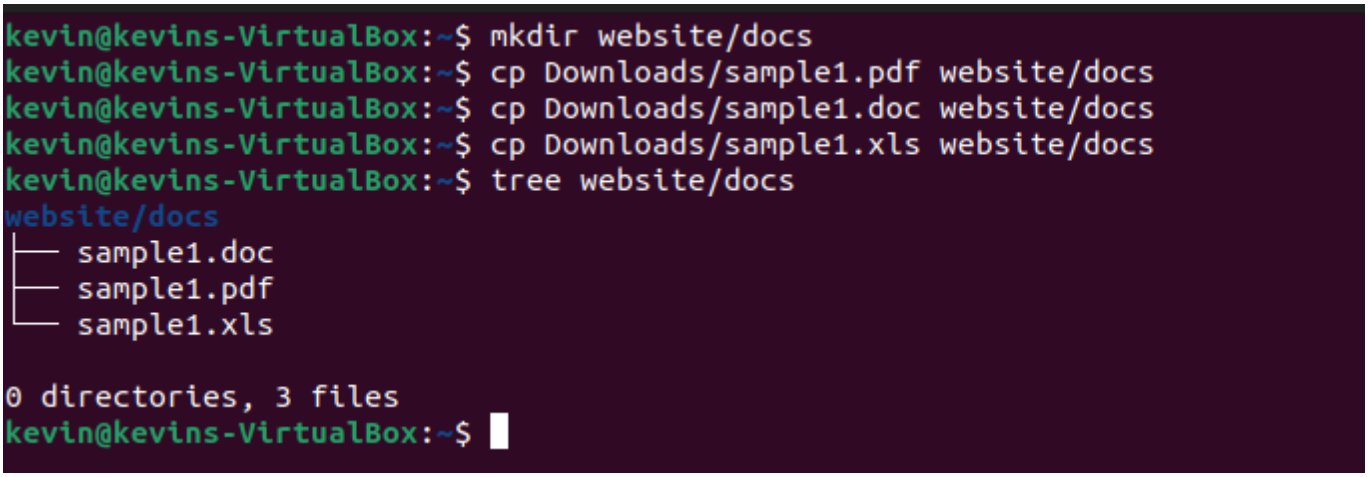
```
kevin@kevins-VirtualBox: /usr/share
kevin@kevins-VirtualBox:~$ cd /usr/share
kevin@kevins-VirtualBox:/usr/share$ mkdir ~/website
kevin@kevins-VirtualBox:/usr/share$ mkdir -p ~/website/assets/images/small
kevin@kevins-VirtualBox:/usr/share$ touch ~/website/assets/images/small/logo.png
kevin@kevins-VirtualBox:/usr/share$ rm ~/website/assets/images/small/logo.png
kevin@kevins-VirtualBox:/usr/share$ rm -r ~/website/
kevin@kevins-VirtualBox:/usr/share$
```

Practice 3

```
kevin@kevins-VirtualBox:~$ mkdir -p website/assets
kevin@kevins-VirtualBox:~$ curl https://cis106/assets/samplesite.txt -o ~/website/index.html
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0curl: (6) Could not resolve host: cis106
kevin@kevins-VirtualBox:~$ curl https://cis106.com/assets/samplesite.txt -o ~/website/index.html
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   372  100   372    0     0   2382      0 --:--:-- --:--:-- --:--:--  2384
kevin@kevins-VirtualBox:~$ mv Downloads/pexels-nati-16776919.jpg website/assets/
kevin@kevins-VirtualBox:~$ mv Downloads/pexels-dico-baskoro-18937801.jpg website/assets/
kevin@kevins-VirtualBox:~$ mv website/assets/pexels-nati-16776919.jpg website/assets/image.png
kevin@kevins-VirtualBox:~$ mv website/assets/pexels-dico-baskoro-18937801.jpg website/assets/image2.png
kevin@kevins-VirtualBox:~$
```



Practice 4


kevin@kevins-VirtualBox:~$ mkdir website/docs
kevin@kevins-VirtualBox:~$ cp Downloads/sample1.pdf website/docs
kevin@kevins-VirtualBox:~$ cp Downloads/sample1.doc website/docs
kevin@kevins-VirtualBox:~$ cp Downloads/sample1.xls website/docs
kevin@kevins-VirtualBox:~$ tree website/docs
website/docs
├── sample1.doc
├── sample1.pdf
└── sample1.xls
0 directories, 3 files
kevin@kevins-VirtualBox:~$