

Week Report 5

Question 1

What are command options?

- Command are often followed by options that modify/enhance their behavior

Question 2

What are command arguments?

- Commands are also followed by arguments which are the items open which the command acts on.

Question 3

Which command is used for creating directories? Provide at least 3 examples. The command used for creating directories is `mkdir`. The formula, `mkdir + the name of the directory`

Examples

1. `mkdir wallpapers`
2. `mkdir wallpapers/ocean`
3. `mkdir ~/wallpapers/forest`

Question 4

What does the touch command do? Provide at least 3 examples. The touch command is used for creating files.

Examples

1. `touch list`
2. `touch list_of_cars.txt script.py names.csv`
3. `list of foods.txt`

Question 5

How do you remove a file? Provide an example. The command that removes file and directories would be the "rm" command.

Example

1. `rm list`

Question 6

How do you remove a directory and can you remove non-empty directories in Linux? Provide and example.

To remove a directory you would use the `rmdir` command. (ex. `rmdir Downloads/games`) To remove non-empty directories use `rm -r + directory name` or `directory absolute path`. (ex. `rm -r Downloads/games`)

Question 7

Explain the `mv` and `cp` command. Provide at least 2 examples of each.

The `mv` command moves and renames directories.

Examples

1. `mv Downloads/homework.pdf Documents/`
2. `sudo mv ~/Downloads/theme /usr/share/themes`

The `cp` command copies files/directories from a source to a destination The `cp` command uses the same structure as the `mv` command `cp + files to copy + destination` To copy directories you must use the `-r` option `cp -r + directory to copy + destination`

Examples

1. `cp -r ~/Downloads/wallpapers ~/Pictures/`
2. `cp Downloads/wallpapers.zip Pictures/`

Practice 1

```
alarsen@cis106vm:~$ mkdir website
alarsen@cis106vm:~$ cd website/
alarsen@cis106vm:~/website$ mkdir scripts assests
alarsen@cis106vm:~/website$ touch index.html
alarsen@cis106vm:~/website$ touch assests/image.png
alarsen@cis106vm:~/website$ touch scripts/script.js
alarsen@cis106vm:~/website$ tree .
.
├── assests
│   └── image.png
├── index.html
└── scripts
    └── script.js

2 directories, 3 files
alarsen@cis106vm:~/website$ rm scripts/script.js
alarsen@cis106vm:~/website$ rm assests/image.png
alarsen@cis106vm:~/website$ rmdir scripts/
alarsen@cis106vm:~/website$ rmdir assests/
rmdir: failed to remove 'assets/': No such file or directory
alarsen@cis106vm:~/website$ rmdir assests/
alarsen@cis106vm:~/website$ cd ..
alarsen@cis106vm:~$ rmdir ~/website
rmdir: failed to remove '/home/alarsen/website': Directory not empty
alarsen@cis106vm:~$ rmdir website
rmdir: failed to remove 'website': Directory not empty
alarsen@cis106vm:~$ rmdir websites/
rmdir: failed to remove 'websites/': No such file or directory
alarsen@cis106vm:~$ rmdir ~/websites/
rmdir: failed to remove '/home/alarsen/websites/': No such file or directory
alarsen@cis106vm:~$ rm -r website/
alarsen@cis106vm:~$
```

Practice 2

```
alarsen@cis106vm: /usr/share
alarsen@cis106vm:~$ cd /usr/share/
alarsen@cis106vm:/usr/share$ mkdir ~/websites/
alarsen@cis106vm:/usr/share$ mkdir -p ~/websites/assets/image/small
alarsen@cis106vm:/usr/share$ touch ~/websites/assets/image/small/logo.png
alarsen@cis106vm:/usr/share$ rm ~/websites/assets/image/small/logo.png
alarsen@cis106vm:/usr/share$ rm -r ~/websites/
alarsen@cis106vm:/usr/share$
```

Practice 3

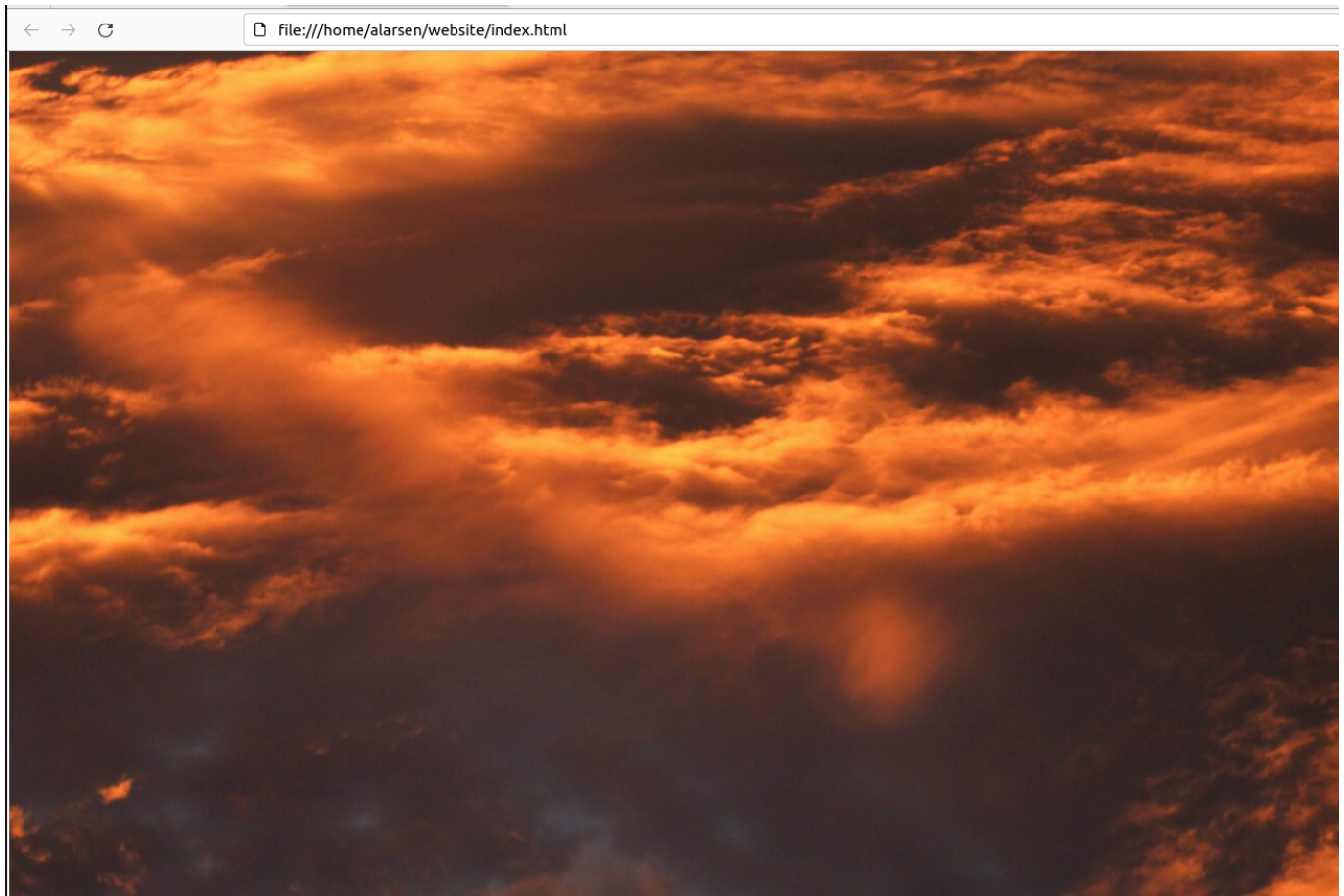
```

alarsen@cis106vm:~$ mkdir -p website/assets/
alarsen@cis106vm:~$ 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    1781      0 --:--:-- --:--:-- --:--:-- 1788
alarsen@cis106vm:~$ mv Downloads/pexels-
.pbash_history      .pki/
.pbash_logout       .profile
.pbashrc            Public/
.pcache/            snap/
cis106/             .ssh/
.config/            .sudo_as_admin_successful
Desktop/            Templates/
Documents/          .thunderbird/
Downloads/          .vboxclient-clipboard.pid
.gitconfig          .vboxclient-display-svga-x11.pid
.gnupg/             .vboxclient-draganddrop.pid
.local/             .vboxclient-seamless.pid
.mozilla/           Videos/
Music/              .vscode/
Pictures/           website/
alarsen@cis106vm:~$ mv Downloads/pexels-
.pbash_history      .pki/
.pbash_logout       .profile
.pbashrc            Public/
.pcache/            snap/
cis106/             .ssh/
.config/            .sudo_as_admin_successful
Desktop/            Templates/
Documents/          .thunderbird/
Downloads/          .vboxclient-clipboard.pid
.gitconfig          .vboxclient-display-svga-x11.pid
.gnupg/             .vboxclient-draganddrop.pid
.local/             .vboxclient-seamless.pid
.mozilla/           Videos/
Music/              .vscode/
Pictures/           website/
alarsen@cis106vm:~$ mv Downloads/pexels-
pexels-moliv-fotografia-13421439.jpg pexels-taras-kots-9420597.jpg
alarsen@cis106vm:~$ mv Downloads/pexels-moliv-fotografia-13421439.jpg website/assets/
alarsen@cis106vm:~$ mv Downloads/pexels-taras-kots-9420597.jpg website/assets/
alarsen@cis106vm:~$ mv website/assets/pexels-moliv-fotografia-13421439.jpg website/assets/image.png
alarsen@cis106vm:~$ mv website/assets/pexels-taras-kots-9420597.jpg website/assets/image2.png
alarsen@cis106vm:~$ xdg-open website/index.html
alarsen@cis106vm:~$ Gtk-Message: 14:33:39.276: Failed to load module "xapp-gtk3-module"
alarsen@cis106vm:~$ Gtk-Message: 14:33:39.279: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
alarsen@cis106vm:~$

```

Sample site





Practice 4

```
alarsen@cis106vm: ~  
alarsen@cis106vm:~$ mkdir website/docs  
mkdir: cannot create directory 'website/docs': No such file or directory  
alarsen@cis106vm:~$ mkdir -p website/docs  
alarsen@cis106vm:~$ cp Downloads/sample1.  
sample1.doc sample1.pdf sample1.xls  
alarsen@cis106vm:~$ cp Downloads/sample1.doc website/docs/  
alarsen@cis106vm:~$ cp Downloads/sample1.pdf website/docs/  
alarsen@cis106vm:~$ cp Downloads/sample1.xls website/docs/  
alarsen@cis106vm:~$ cp Downloads/sample1.xls website/docs/  
alarsen@cis106vm:~$ tree website/  
website/  
├── docs  
│   ├── sample1.doc  
│   ├── sample1.pdf  
│   └── sample1.xls  
  
1 directory, 3 files  
alarsen@cis106vm:~$
```