

# Week Report 5

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## What are Command Options?

Command Options are used to modify/enhance their behavior.

## What are Command Arguments?

Command Arguments are the items open which the command acts on.

## Which command is used for creating directories? Provide at least 3 examples.

The command used for creating directories is: `mkdir`

In order to create a directory there is a formula that needs to be follow. **Formula:** `mkdir + directory name`

### Examples:

1. Create a directory in the present working directory `mkdir wallpapers`
2. Create a directory with a space in the name `mkdir wallpapers/'cities usa'`
3. Create multiple directories `mkdir wallpapers/cars wallpapers/cities wallpaper/forest`
4. Create a directory with a parent directory at the same time. `mkdir -p wallpapers_others/movies`

## What does the touch command do? Provide at least 3 examples.

The command touch is used for creating files: `touch`

When creating files using the command touch, follow the formula. **Formula:** `touch + file name`

### Examples:

1. Create a file called list `touch list`
2. Create file using absolute path `touch ~/Downloads/games.txt`
3. Create several files `touch list_of_cars.txt script.py names.csv`
4. Create a file with a space in its name `touch "list of foods.txt"`

## How do you remove a file? Provide an example.

In order to remove a file used the command: `rm`

### Examples:

1. Remove a file `rm list`
2. Remove a file and prompt confirmation before removal `rm -i list`

3. Remove all the files inside a directory and ask before removing more than 3 files `rm -I Downloads/games/*`

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

To remove a directory used the command: `rmdir` A non-empty directory can be remove by using the command: `rm -r`

### Examples:

1. Remove an empty directory `rmdir Downloads/games`
2. Remove a non-empty directory `rm -r Downloads/games`

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

**Moving command** can moves and renames directories by using the command: `mv`

There are two different formula to use with the moving command

- The basic formula of the mv command is: `mv + source + destination`
- To rename files/directories the formula remains the same: `mv + file/directory to rename + new name`

### Moving Examples:

1. To remove a file from a directory to another using relative path `mv Downloads/homework.pdf Documents/`
2. To move a file one directory to another combining absolute path and relative path `mv Downloads/english_homework.docx /media/student/flashdrive/`
3. To move multiple directories/files to a different directory `mv games/ wallpapers/ rockmusic/ /media/student/flashdrive/`

### Renaming Examples:

1. To rename a file `mv homework.docx cis106homework.docx`
2. To rename a file using absolute path `mv ~/Downloads/homework.docx ~/Downloads/cis106homework.docx`
3. To move and rename a file in the same command `mv Downloads/cis106homework.docx Documents/new_cis106homework.docx`

**Copying Command** can copies file/directories from a source to a destination by using the command: `cp`

When using the command copy always remember to follow the formula. **Formula:** `cp + files to copy + destination`

### Examples:

1. copy a file `cp Downloads/wallpapers.zip Pictures/`

2. Copy a directory with absolute path `cp -r ~/Downloads/wallpapers ~/Pictures/`
3. Copy the content of a directory to another directory `cp Downloads/wallpapers/* ~/Pictures/`
4. Copy multiple files in a single command `sudo cp -r script.sh program.py home.html assets/ /var/www/html/`

## Practice

- Practice 1

```

amnoboa@cis106vm: ~
amnoboa@cis106vm:~$ mkdir website
amnoboa@cis106vm:~$ mkdir website/script website/assets
amnoboa@cis106vm:~$ touch website/index.html
amnoboa@cis106vm:~$ touch website/assets/image.png
amnoboa@cis106vm:~$ touch website/script/script.js
amnoboa@cis106vm:~$ tree website/
website/
├── assets
│   └── image.png
├── index.html
└── script
    └── script.js

2 directories, 3 files
amnoboa@cis106vm:~$ rm website/script/script.js website/assets/image.png
amnoboa@cis106vm:~$ rm -r website/script/ website/assets/
amnoboa@cis106vm:~$ rm -r website/
amnoboa@cis106vm:~$

```

- Practice 2

```

amnoboa@cis106vm: /usr/share
amnoboa@cis106vm:~$ cd /usr/share/
amnoboa@cis106vm:/usr/share$ mkdir ~/website
amnoboa@cis106vm:/usr/share$ mkdir -p ~/website/assets/images/small
amnoboa@cis106vm:/usr/share$ touch ~/website/assets/images/small/logo.png
amnoboa@cis106vm:/usr/share$ rm ~/website/assets/images/small/logo.png
amnoboa@cis106vm:/usr/share$ rm -r ~/website/
amnoboa@cis106vm:/usr/share$

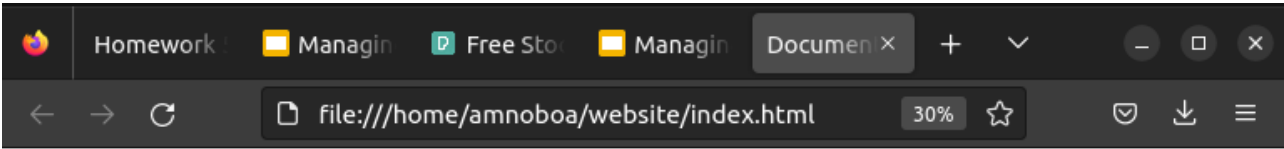
```

- Practice 3

```

amnoboa@cis106vm: ~
amnoboa@cis106vm:~$ mkdir -p ~/website/assets
amnoboa@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   2002      0 --:--:-- --:--:-- --:--:--  2021
amnoboa@cis106vm:~$ mv ~/Downloads/pexels-marina-gr-9793918.jpg ~/Downloads/pexels-smaragda-zacharioudaki-10465780.jpg ~/website/assets/
amnoboa@cis106vm:~$ mv ~/website/assets/pexels-marina-gr-9793918.jpg ~/website/assets/image.png
amnoboa@cis106vm:~$ mv ~/website/assets/pexels-smaragda-zacharioudaki-10465780.jpg ~/website/assets/image2.png
amnoboa@cis106vm:~$

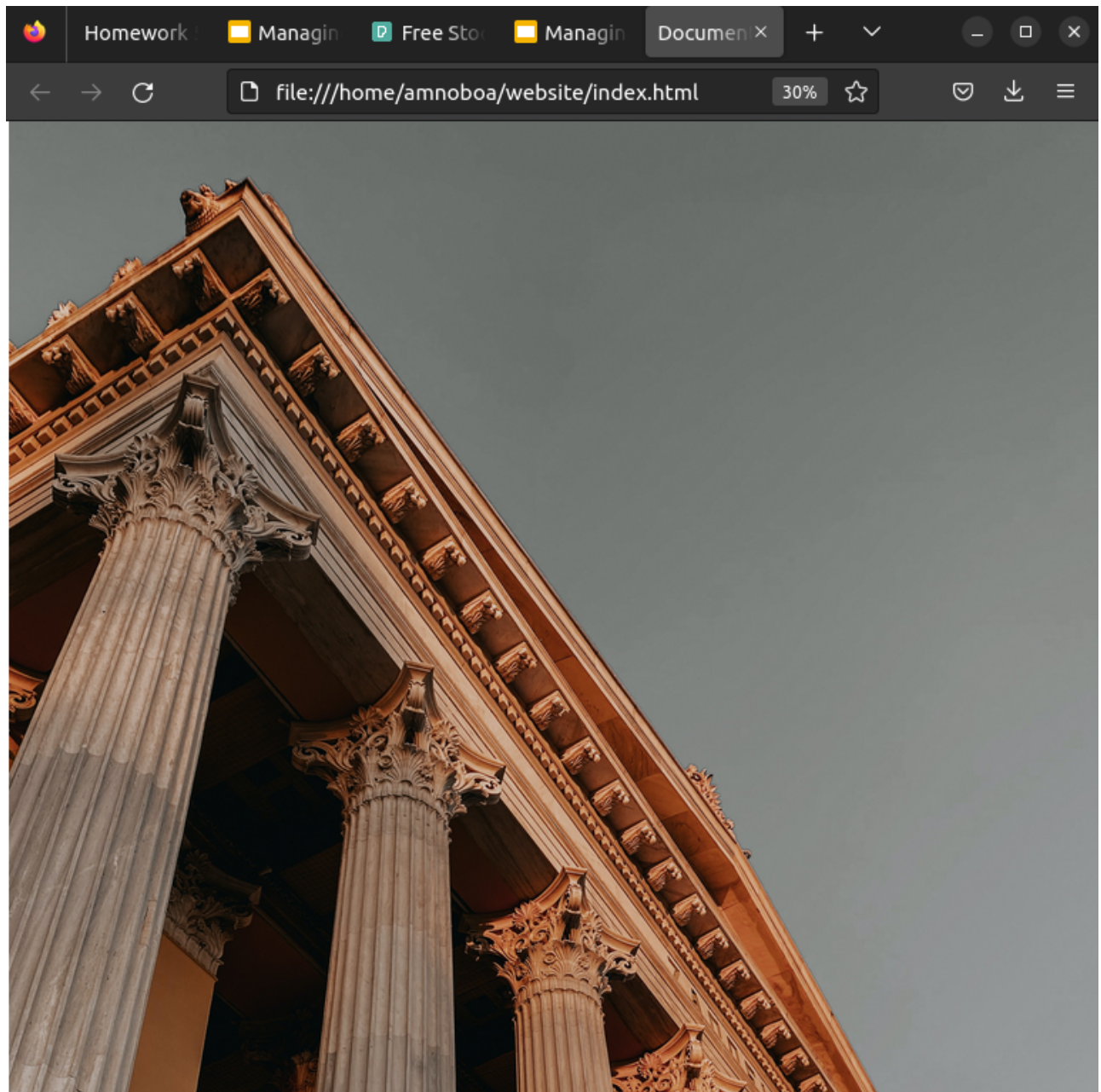
```



Sample site







- Practice 4

```
amnoba@cis106vm: ~  
amnoba@cis106vm:~$ mkdir ~/website/docs  
amnoba@cis106vm:~$ cp ~/Downloads/sample1.* ~/website/docs/  
amnoba@cis106vm:~$ cp ~/Downloads/sample2.* ~/website/docs/  
amnoba@cis106vm:~$ cp ~/Downloads/sample3.* ~/website/docs/  
amnoba@cis106vm:~$ tree ~/website/docs/  
/home/amnoba/website/docs/  
├── sample1.doc  
├── sample1.pdf  
├── sample1.xls  
├── sample2.doc  
├── sample2.pdf  
├── sample2.xls  
├── sample3.pdf  
└── sample3.xls  
  
0 directories, 8 files  
amnoba@cis106vm:~$
```