

Week Report 5

1. Answer the following:

- What are Command Options?

Command Options are options that follow commands that modify/enhance their behavior.

- What are Command Arguments?

Command Arguments are arguments which are the items open which the command acts on. It follows a command.

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

The command for creating directories is `mkdir`. To create a directory use this formula: `mkdir + the name of the directory`. Three examples are:

1. `mkdir wallpapers/'cities usa':` creates a directory with a space in the name
2. `mkdir wallpapers/"majora's mask":` creates a directory with a single quote in the name
3. `mkdir wallpapers/cars wallpapers/cities wallpapers/forest:` creates multiple directories

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

The `touch` command is used for creating files. Three examples are:

1. `touch list:` to create a file called `list`
2. `touch list_of_cars.txt script.py names.csv:` to create several files
3. `touch "list of foods.txt":` to create a file with a space in its name

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

To remove files use the `rm` command. Some example are:

1. `rm -i list:` removes file and prompt confirmation before removal
2. `rm -I Downloads/games/*:` removes all the files inside a directory and asks before removing more than 3 files

```
3. rm list: removes a file
```

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

The **rm** by default does not remove directories. To remove a directory use **rm -r** option. In Linux and other Nix systems you cannot remove non empty directories. To remove empty directories use the **rmdir** command. To remove non-empty directories use **rm + directory name in directory absolute path**. Examples are:

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

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

The **mv** command moves and renames directories. The formula for the command is **mv + source + destination**. For renaming files/directories the formula is **mv + file/directory + new name**. The **cp** command copies files/ directories from a source to a destination. The structure used is the same 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 of **mv**:

1. `mv Downloads/homework.pdf Documents/:` moves file from a directory to another using relative path
2. `sudo mv ~/Downloads/theme usr/share/themes:` moves a directory from one directory to another using absolute path
3. `mv Downloads/english_homework.docx /media/student/flashdrive/:` moves a file from one directory to another combining absolute path and relative path
4. `mv games/ wallpapers/ rockmusic/ /media/student/flashdrive/:` moves multiple directories/files to a different directory
5. `mv ~/Downloads/homework.docx ~/Downloads/cis106homework/.docx:` renames a file using absolute path
6. `mv Downloads/cis106homework.docx Documents/new_cis106homework.docx:` moves and renames a file in the same command


Examples of **cp**:

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

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

2. Complete all practices

Practice 1:

```
Oct 18 21:04 
masantana24978@cis106vm: ~

masantana24978@cis106vm:~$ mkdir website
mkdir: cannot create directory 'website': File exists
masantana24978@cis106vm:~$ cd website/
masantana24978@cis106vm:~/website$ mkdir script assets
masantana24978@cis106vm:~/website$ touch index.html
Command 'touch' not found, did you mean:
  command 'touch' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
masantana24978@cis106vm:~/website$ touch index.html
masantana24978@cis106vm:~/website$ touch assets/image.png
masantana24978@cis106vm:~/website$ touch script/script.js
masantana24978@cis106vm:~/website$ tree .
.
├── assets
│   └── image.png
├── index.html
├── media
├── peru
├── peru's pictures
├── Peru"s Pictures
├── pictures
├── pictures peru
├── script
│   └── script.js
├── script.js
├── script.jsindex.html
└── style.css

8 directories, 6 files
masantana24978@cis106vm:~/website$ rm script/script.js assets/image.png
masantana24978@cis106vm:~/website$ rmdir script/ assets/
masantana24978@cis106vm:~/website$ cd ..
masantana24978@cis106vm:~$ rm -r website/
masantana24978@cis106vm:~$
```

Practice 2:

```

Oct 18 21:12
masantana24978@cis106vm: /usr/share

masantana24978@cis106vm:~$ cd /usr/share/
masantana24978@cis106vm:/usr/share$ mkdir ~/website
masantana24978@cis106vm:/usr/share$ mkdir -p ~/website/assets/images/small
masantana24978@cis106vm:/usr/share$ touch ~/website/assets/images/small/logo.png
masantana24978@cis106vm:/usr/share$ rm ~/website/assets/images/small/logo.png
masantana24978@cis106vm:/usr/share$ rm -r ~/website/
masantana24978@cis106vm:/usr/share$

```

Practice 3:

```

Oct 18 22:35
masantana24978@cis106vm: ~

masantana24978@cis106vm:~$ mkdir -p website/assets
masantana24978@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  1072      0 --:--:-- --:--:-- --:--:-- 1072
masantana24978@cis106vm:~$ mv Downloads/pexels-
mv: missing destination file operand after 'Downloads/pexels-'
Try 'mv --help' for more information.
masantana24978@cis106vm:~$ mv Downloads/pexels-
mv: missing destination file operand after 'Downloads/pexels-'
Try 'mv --help' for more information.
masantana24978@cis106vm:~$ mv Downloads/pexels-
pexels-cottonbro-5966250.jpg pexels-sam-lion-5733417.jpg
masantana24978@cis106vm:~$ mv Downloads/pexels-sam-lion-5733417.jpg website/assets/
masantana24978@cis106vm:~$ mv Downloads/pexels-cottonbro-5966250.jpg website/assets/
masantana24978@cis106vm:~$ mv website/assets/pexel-sam-lion-5733417.jpg website/assets/image.png
mv: cannot stat 'website/assets/pexel-sam-lion-5733417.jpg': No such file or directory
masantana24978@cis106vm:~$ mv website/assets/pexels-sam-lion-5733417.jpg wesite/assets/image.png
mv: cannot move 'website/assets/pexels-sam-lion-5733417.jpg' to 'wesite/assets/image.png': No such file or directory
masantana24978@cis106vm:~$ mv website/assets/pexels-sam-lion-5733417.jpg website/assets/image.png
masantana24978@cis106vm:~$ mv website/assets/pexels-cottonbro-5966250.jpg website/assets/image2.png
masantana24978@cis106vm:~$ xdg-open website/index.html
masantana24978@cis106vm:~$

```

Practice 4:

```
Oct 19 16:17
masantana24978@cis106vm: ~
masantana24978@cis106vm:~$ mkdir website/docs
masantana24978@cis106vm:~$ cp Downloads/sample
cp: missing destination file operand after 'Downloads/sample'
Try 'cp --help' for more information.
masantana24978@cis106vm:~$ cp Downloads/sample
cp: missing destination file operand after 'Downloads/sample'
Try 'cp --help' for more information.
masantana24978@cis106vm:~$ cp Downloads/sample1.doc website/docs/
masantana24978@cis106vm:~$ cp Downloads/sample1.xls website/docs/
masantana24978@cis106vm:~$ cp Downloads/sample1.pdf website/docs/
masantana24978@cis106vm:~$ tree website/
website/
├── assets
│   ├── image2.png
│   └── image.png
├── docs
│   ├── sample1.doc
│   ├── sample1.pdf
│   └── sample1.xls
└── index.html

2 directories, 6 files
masantana24978@cis106vm:~$
```