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:

```
    touch list: to create a file called list
    touch list_of_cars.txt script.py names.csv: to create several files
    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 ir directory absolute path**. Examples are:

```
    rmdir Downloads/games: remove an empty directory
    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

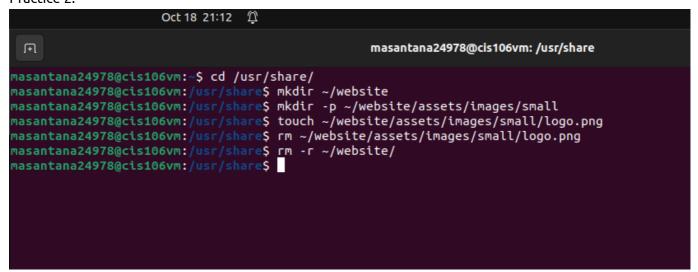
```
    cp -r ~/Downloads/wallpapers ~/Pictures/: copies directory with absolute path
    cp Downloads/wallpapers ~/Pictures/: copies the content of a directory to another directory
    sudo cp -r script.sh program.py home.html assets/ /var/www.html/: copies multiple files in a single command
```

2. Complete all practices

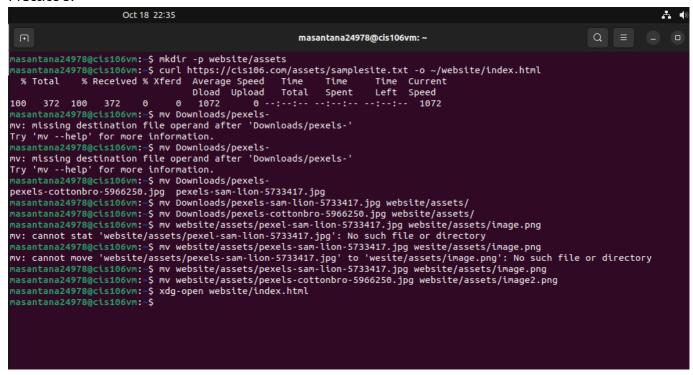
Practice 1:

```
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$ tocuh index.html
Command 'tocuh' 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 .
   index.html
      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:



Practice 3:



Practice 4:

