Week Report 5

Answer the following questions:

1. What are Command Options?

Commands are often followed by options that modify/enhance their behavior.

2. What are Command Arguments?

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

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

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

Examples:

- mkdir wallpapers/'cities usa': creates a directory with a space in the name
- mkdir wallpapers/"majora's mask": creates a directory with a single quote in the name
- mkdir wallpapers/cars wallpapers/cities wallpapers/forest: creates multiple directories
- 4. What does the touch command do? Provide 3 examples

The touch command is used for creating files.

Examples:

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

The rm command is used to remove files.

Examples:

- rm -i list: remove a file and prompt confirmation before removal
- rm -I Downloads/games/*: remove all the files inside a directory and ask before removing more than 3 files
- rm list: remove a file
- 6. 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 with the -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 -r + directory name ir directory absolute path.

Examples:

- rmdir Downloads/games: remove an empty directory
- rm -r Downloads/games: remove an non-empty directory
- 7. Explain the mv and cp command. Provide 2 examples of each

mv command moves and renames directories. The formula of the mv command is: mv + source + destination For renaming files/directories the formula is: mv + file/directory to rename + new name

Examples:

- mv Downloads/homework.pdf Documents/: to move a file from a directory to another using relative path
- mv games/ wallpapers/ rockmusic/ /media/student/flashdrive/: to move multiple directories/files to a different directory
- mv ~/Downloads/homework.docx ~/Downloads/cis106homework/.docx: to rename a file using absolute path
- mv Downloads/cis106homework.docx Documents/new_cis106homework.docx

cp command copies files/directories from a source to a destination. The formula of the cp command is: cp + files to copy + destination To copy directories use the -r option: <math>cp - r + directory to copy + destination

Examples:

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

2. Complete the practices:

Practice 1

```
sskisijara@CIS106vm: ~
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                                                                           sskisijara@CIS106vm:~$ mkdir website
mkdir: cannot create directory 'website': File exists
sskisijara@CIS106vm:~$ cd website/
sskisijara@CIS106vm:~/website$ mkdir script assets
sskisijara@CIS106vm:~/website$ touch index.html
sskisijara@CIS106vm:~/website$ touch assets/image.png
sskisijara@CIS106vm:~/website$ touch script/script.js
sskisijara@CIS106vm:~/website$ tree .
    image.png
    index.html
    - png
    __ script.js
   style.css
9 directories, 4 files
sskisijara@CIS106vm:~/website$ rm script/script.js assests/image.png
rm: cannot remove 'assests/image.png': No such file or directory
sskisijara@CIS106vm:~/website$ rm script/script.js assets/image.png
rm: cannot remove 'script/script.js': No such file or directory
sskisijara@CIS106vm:~/website$ rmdir script/ assets/
sskisijara@CIS106vm:~/websiteS cd ...
sskisijara@CIS106vm:~$ rm -r website/
sskisijara@CIS106vm:~$
```

• Practice 2

```
sskisijara@CIS106vm:/usr/share
sskisijara@CIS106vm:/share$ mkdir ~/website
sskisijara@CIS106vm:/usr/share$ mkdir -p ~/website/assets/images/small
sskisijara@CIS106vm:/usr/share$ touch ~/website/assets/images/small/logo.png
sskisijara@CIS106vm:/usr/share$ rm ~/website/assets/images/small/logo.png
sskisijara@CIS106vm:/usr/share$ rm -r ~/website/
sskisijara@CIS106vm:/usr/share$ rm -r ~/website/
sskisijara@CIS106vm:/usr/share$
```

Practice 3

```
sskisijara@CIS106vm: ~
sskisijara@CIS106vm:~$ mkdir -p website/assets
sskisijara@CIS106vm:~$ curl https://cis106.com/assets/samplesite.txt -o ~/website/index.html
 % Total
            % Received % Xferd Average Speed
                                                   Time
                                                            Time
                                                                     Time Current
                                                                      Left Speed
                                   Dload Upload
                                                    Total
                                                            Spent
    372 100
                 372
                        0
                               Θ
                                     957
                                              Θ
sskisijara@CIS106vm:~$ mv Downloads/pexels-
mv: missing destination file operand after 'Downloads/pexels-'
Try 'mv --help' for more information.
sskisijara@CIS106vm:~$ mv Download/pexels-
mv: missing destination file operand after 'Download/pexels-'
Try 'mv --help' for more information.
sskisijara@CIS106vm:~$ mv Downloads/pexels-
mv: missing destination file operand after 'Downloads/pexels-'
Try 'mv --help' for more information.
sskisijara@CIS106vm:-$ mv Downloads/pexels-/
mv: missing destination file operand after 'Downloads/pexels-/'
    'mv --help' for more information.
sskisijara@CIS106vm:~$ mv Downloads/pexels-anna-shvets-4588065.jpg website/assets/
sskisijara@CIS106vm:~$ mv Downloads/pexels-piya-nimityongskul-2883510.jpg website/assets/
sskisijara@CIS106vm:~$ mv website/assets/pexels-anna-shvets-4588065.jpg website/assets/image.png
sskisijara@CIS106vm:~$ mv website/assets/pexels-piya-nimityongskul-2883510.jpg website/assets/image2.png
sskisijara@CIS106vm:~$ xdg-open website/index.html
sskisijara@CIS106vm:~$
```

Practice 4

