notes5.md 2024-10-30

#### Notes 4

# Managing Files and Directories

#### 1. Options and Arguments:

- Commands are often followed by options that modify enhance their behavior.
- Commands aare also followed by argments which are the items the command acts on. This can be a file or directory.
- Example: Command, -Option, Argument (ls -l ~/Downloads)

### 2. mkdir (Creating Directories)

- Description: is used for creating a single directory or multiple directories.
- Usage: mkdir + (the name of the directory)
- Examples:
  - mkdir wallpapers: Create a directory in the present working directory.
  - mkdir wallpapers/ocean: Create a directory in a different directory using relative path.
  - mkdir ~/wallpapers/forest: Create a directory in a different directory using absolute path.
  - 1. mkdir wallpapers/new\ cars... 2) mkdir wallpapers/'cities usa': Create a directory a space in the name mkdir wallpapers/"majora's mask": Create a directory with a single quote in the name.
  - mkdir wallpapers/cars wallpapers/cities wallpapers/forest: Create multiple directories
  - mkdir -p wallpapers others/movies: Create a directory with a parent at the same time.

#### 3. touch (Creating Files)

- Description: Used for creating Files.(Note: Creating files is not what the purpose of the touch command. The touch command updates any given file's timestamp. But, if the file does not exist, it creates it.)
- · Usage: touch
- Examples:
  - touch list: To create a file called list.
  - touch list of cars.txt script.py names.csv: To create several files.
  - touch ~/Downloads/games.txt: To create a file using absolute path.
  - touch Downloads/games2.txt: To create a file using relative path.(Assuming your pwd is your home directory.)
  - touch "list of foods.txt": To create with a space in its name.

#### 4. rm (Deleting files and directories)

- Description: Removes files(By default does not remove directories. To remove a directory use rm with the -r option)/ILinux and other Nix systems you cannot remove non empty directories.
- Usage: Removes files and directories.

notes5.md 2024-10-30

- Examples:
  - rmdir: To remove empty directories.
  - rm -r +"directory name or directory absolute path."
  - rm list: Remove a file.
  - rm -i list: Remove a file and prompt confirmation before removal.
  - rm -I Downloads/games/\*: Removes all the files inside a directory and ask before removing more than 3 files.
  - rmdir Downloads: Remove an Empty directory.
  - rm -r Downloads/games: Remove an non-empty directory

## 5. mv (Moving files and directories)

- Description: Moves and renames directories. Where source is the file or directory that you want to move and destination is where the directory or file is going.
- Usage: mv + source + destination
- Examples:
  - mv Downloads/homework.pdf Documents/:To move a file from a directory to another using relative path.
  - sudo mv ~/Downloads/theme /usr/share.themes: To move a directory from one directory to
    another using absolute path.(Notice that in this command i am using sudo since the destination
    is owned by root)
  - mv Downloads/english\_homework.docx /media/student/flashdrive/: To move a file from one
    directory to another combing absolute path and relative path.(Notice that in this command i am
    moving the file "english\_etc..."to the directory where the flash drive is mounted.)
  - mv games/ wallpapers/ rockmusic/ /media/student/flashdrive/: To move multiple directories/files to a diffrent directory.
  - mv homework.docx cis106homework.docx: To rename a file
  - mv ~/Downloads/homework.docx ~/Downloads/cis106homework.docx: To rename a file using absolute path.
  - mv Downloads/cis106homework.docxDocuments/new\_cis106homework.docx: To move and rename a file in the same command.

# 6. cp (Copying files and directions)

- Description: cp copies files/directories from a source to a destination.
- Usage: cp + files to copy + destination
- Examples:
  - cp Downloads/wallpapers.zip Pictures/: To copy A FILE
  - 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.