


Week Report 4

Practice 1

```
1: cgcollado@cis106vm: ~  
cgcollado@cis106vm:~$ pwd  
/home/cgcollado  
cgcollado@cis106vm:~$ cd /home/cgcollado/Downloads/  
cgcollado@cis106vm:~/Downloads$ pwd  
/home/cgcollado/Downloads  
cgcollado@cis106vm:~/Downloads$ cd ..  
cgcollado@cis106vm:~$ cd ../../  
cgcollado@cis106vm:/$ pwd  
/  
cgcollado@cis106vm:/$ cd -  
/home/cgcollado  
cgcollado@cis106vm:~$
```



Practice 2

```
1/1 + [T] [C] Tilix: cgcollado@cis106vm: ~/practicels
1: cgcollado@cis106vm: ~/practicels
cgcollado@cis106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-03-12 17:29:22-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'

practicels.tar.xz      100%[=====>]  2.12M  --.-KB/s   in 0.09s

2023-03-12 17:29:22 (23.5 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

cgcollado@cis106vm:~$ tar Jxf practicels.tar.xz
cgcollado@cis106vm:~$ cd practicels/
cgcollado@cis106vm:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml  homework.docx       people.csv  tux-nobg.png
cgcollado@cis106vm:~/practicels$ ls -a
.  book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
.. countries.xml  homework.docx       people.csv  tux-nobg.png

cgcollado@cis106vm:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 cgcollado cgcollado 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 cgcollado cgcollado 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 cgcollado cgcollado 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 cgcollado cgcollado 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 cgcollado cgcollado 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cgcollado cgcollado 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 cgcollado cgcollado 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 cgcollado cgcollado 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cgcollado cgcollado 44299 Jan 31 2020 tux-penguin.gif
cgcollado@cis106vm:~/practicels$ ls -lh
ls-lh: command not found
cgcollado@cis106vm:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 cgcollado cgcollado 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 cgcollado cgcollado 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cgcollado cgcollado 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 cgcollado cgcollado 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 cgcollado cgcollado 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cgcollado cgcollado 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cgcollado cgcollado 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 cgcollado cgcollado 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cgcollado cgcollado 44K Jan 31 2020 tux-penguin.gif
```

```
cgcollado@cis106vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 cgcollado cgcollado 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cgcollado cgcollado 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cgcollado cgcollado 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 cgcollado cgcollado 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cgcollado cgcollado 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 cgcollado cgcollado 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cgcollado cgcollado 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 cgcollado cgcollado 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 cgcollado cgcollado 44K Jan 31 2020 tux-penguin.gif
cgcollado@cis106vm:~/practicels$ ls -lhtgS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
cgcollado@cis106vm:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx, history-debian.pdf,
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
cgcollado@cis106vm:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx, history-debian.pdf,
countries.xml, book.txt
cgcollado@cis106vm:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
cgcollado@cis106vm:~/practicels$
```

Practice 3

```

cgcollado@cis106vm:~$ pwd
/home/cgcollado
cgcollado@cis106vm:~$ cd
cgcollado@cis106vm:~$ cd /
cgcollado@cis106vm:/$ cd usr/share/themes/
cgcollado@cis106vm:/usr/share/themes$ cd ../../
cgcollado@cis106vm:/usr$ ls -A ~
.bash_history      .dotnet            Music              Templates
.bash_logout       Downloads          Pictures           .vboxclient-clipboard.pid
.bashrc            .fltk             .pki              .vboxclient-draganddrop.pid
.cache             .fonts            practicels        .vboxclient-seamless.pid
carloscollado88    .gitconfig        practicels.tar.xz .vboxclient-vmvga-session-tty2.pid
.cis106.png        .gnupg            .profile          Videos
.config            lab4files          Public            .viminfo
Desktop            lab4files.zip     snap              .vscode
.dillo             .lessht           .ssh
Documents          .local            .sudo_as_admin_successful
cgcollado@cis106vm:/usr$ cd; ls -tX ~/Desktop/cis106/
'Cheat Sheets'  Finalproject  labs  WeekReports
cgcollado@cis106vm:~$ ls -rR ~/Desktop/cis106/
/home/cgcollado/Desktop/cis106/:
WeekReports  labs  Finalproject  'Cheat Sheets'

/home/cgcollado/Desktop/cis106/WeekReports:

```

```

'Week report 4'  'Week report 3'

'/home/cgcollado/Desktop/cis106/WeekReports/Week report 4':
Weekreport4.md  Practice2.3.png  Practice2.1.png  'fs 1.3.png'  'fs 1.1.png'
Practice2.4.png  Practice2.2.png  Practice1.1.png  'fs 1.2.png'

'/home/cgcollado/Desktop/cis106/WeekReports/Week report 3':
weekReport3.pdf  weekReport3.md

/home/cgcollado/Desktop/cis106/labs:
'lab 4'  'lab 3'  lab2  lab1  Finalproject

'/home/cgcollado/Desktop/cis106/labs/lab 4':
'question 5.2.1.png'  question4.6.png  question4.1.png  question2.3.png  lab4submission.pdf
'question 5.1.png'   question4.5.png  question4.13.png  question2.2.png  lab4submission.md
question4.9.png      question4.4.png  question4.12.png  question2.1.png
question4.8.png      question4.3.png  question4.11.png  'question 1.2.png'
question4.7.png      question4.2.png  question4.10.png  question1.1.png

'/home/cgcollado/Desktop/cis106/labs/lab 3':
'what is ubuntu.pdf'  'Tillix terminal.png'  'music player.png'  'email reader.png'
'web browser.png'    q2.1.png              lab3.pdf            dragonplayer.png
'ubuntu presentation.odp'  q1.1.png              lab3.md             'block attack.png'

```



```

/home/cgcollado/Desktop/cis106/labs/lab2:
'virtual box screenshot.jpg'      'Snapshot 2.png'
'Ubuntu installation screenshot.jpg' lab2.pdf
'task manager screenshot.jpg'     lab2.md
'snapshot after wayland change .jpg' 'Guest addition screenshot.jpg'

/home/cgcollado/Desktop/cis106/labs/lab1:
whatisubuntu.txt                  what-is-ubuntu.pdf  johndoe.pdf          johndoe.html
what_is_ubuntu_submission.pdf     ubuntu-logo.png    johndoe.md
what_is_ubuntu_submission.md      ubuntu-desktop.png johndoe.jpeg
what_is_ubuntu_submission.html    resume.png         johndoeinfo.txt


/home/cgcollado/Desktop/cis106/labs/Finalproject:
'Deliverable 1.md'

/home/cgcollado/Desktop/cis106/Finalproject:
Virtualbox_logo_200x200.png      'IIS LOGO.jpg'
Ubuntu_logo_orange_1_150x100.png 'firewall .jpg'
secure-shellssh-icon-isolated-on-260nw-1830293105_150x150.webp 'Deliverable 1.pdf'
'lighttpd logo.jpg'              'Deliverable 1.md'
'java logo.jpg'                  Apachelogo.png

'/home/cgcollado/Desktop/cis106/Cheat Sheets':
'Linux Workshop Ubuntu Software installation cheat sheet.png'

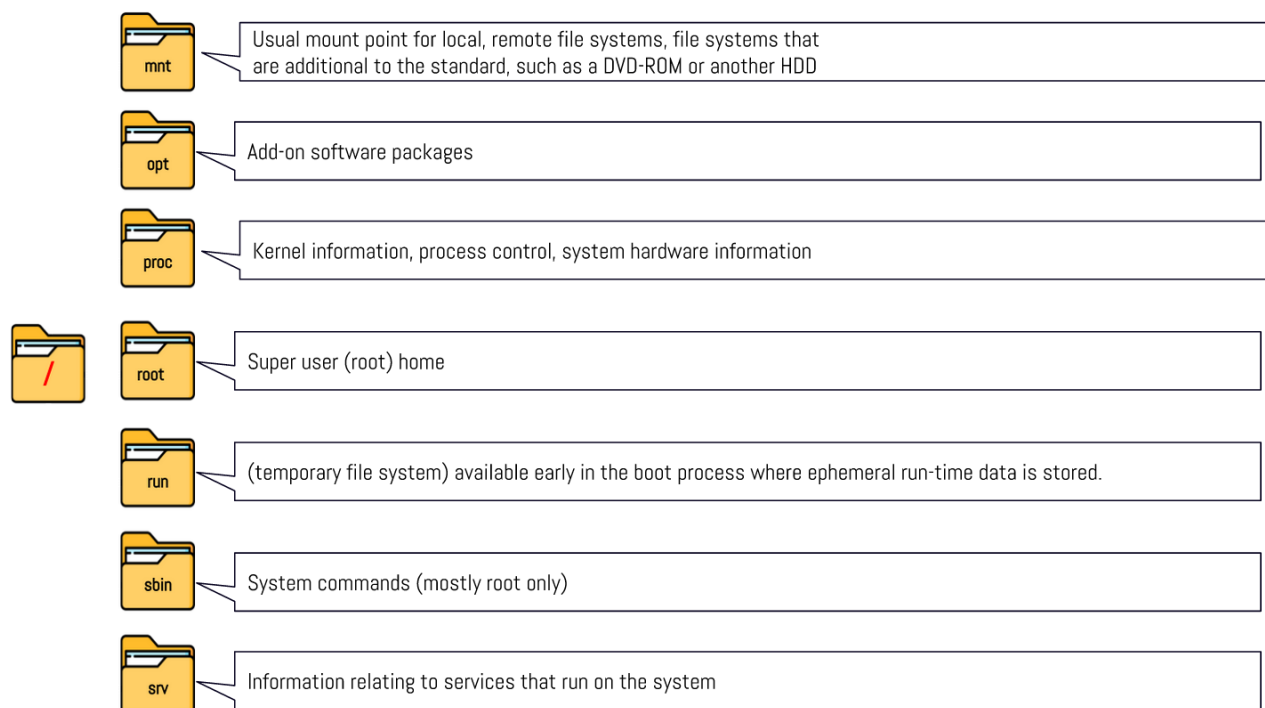
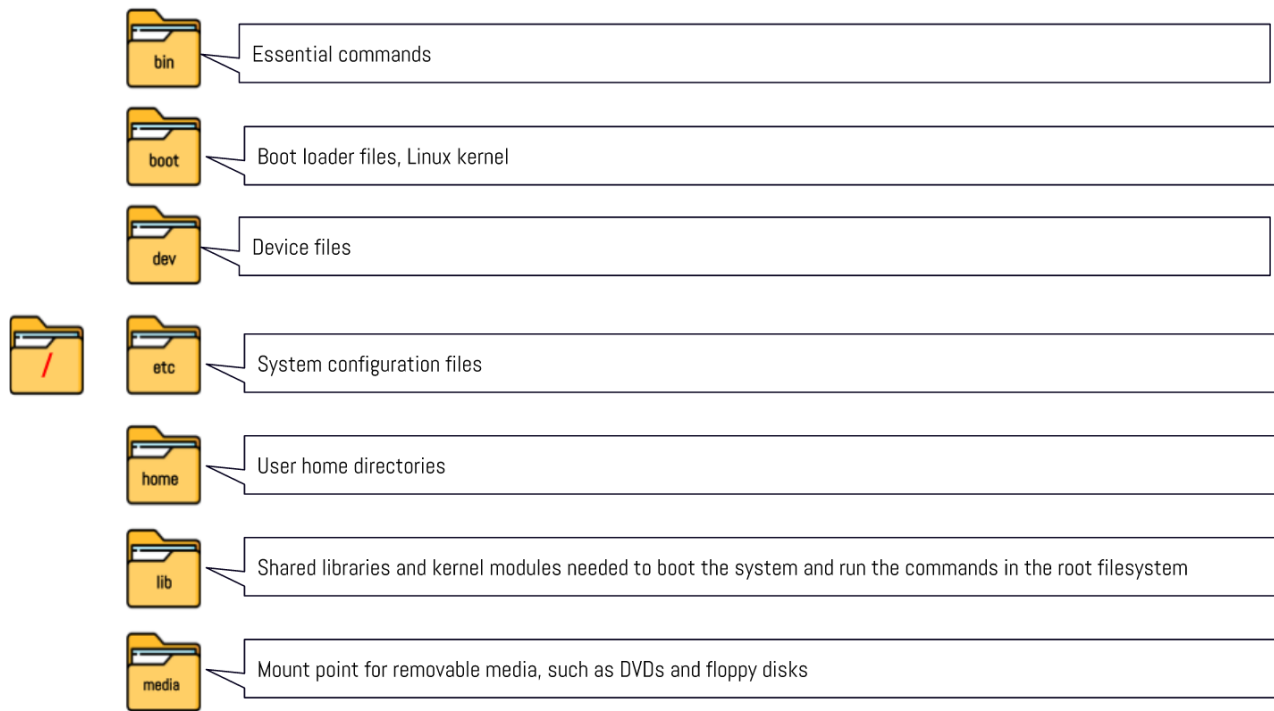
cgcollado@cis106vm:~$ ls -lh ~
total 5.5M
drwxrwxr-x 2 cgcollado cgcollado 4.0K Feb  3 00:39 carloscollado88
drwxr-xr-x 4 cgcollado cgcollado 4.0K Mar 12 17:24 Desktop
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb  1 23:23 Documents
drwxr-xr-x 2 cgcollado cgcollado 4.0K Mar 12 17:24 Downloads
drwxrwxr-x 2 cgcollado cgcollado 4.0K Feb 22 2022 lab4files
-rw-rw-r-- 1 cgcollado cgcollado 3.4M Mar  5 19:19 lab4files.zip
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb  1 23:23 Music
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb 22 23:32 Pictures
drwxrwxr-x 2 cgcollado cgcollado 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 cgcollado cgcollado 2.2M Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb  1 23:23 Public
drwx----- 5 cgcollado cgcollado 4.0K Feb  2 23:59 snap
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb  1 23:23 Templates
drwxr-xr-x 2 cgcollado cgcollado 4.0K Feb  1 23:23 Videos
cgcollado@cis106vm:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
cgcollado@cis106vm:~$ ls -lgG-full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
cgcollado@cis106vm:~$ ls -lgG --full-time ~

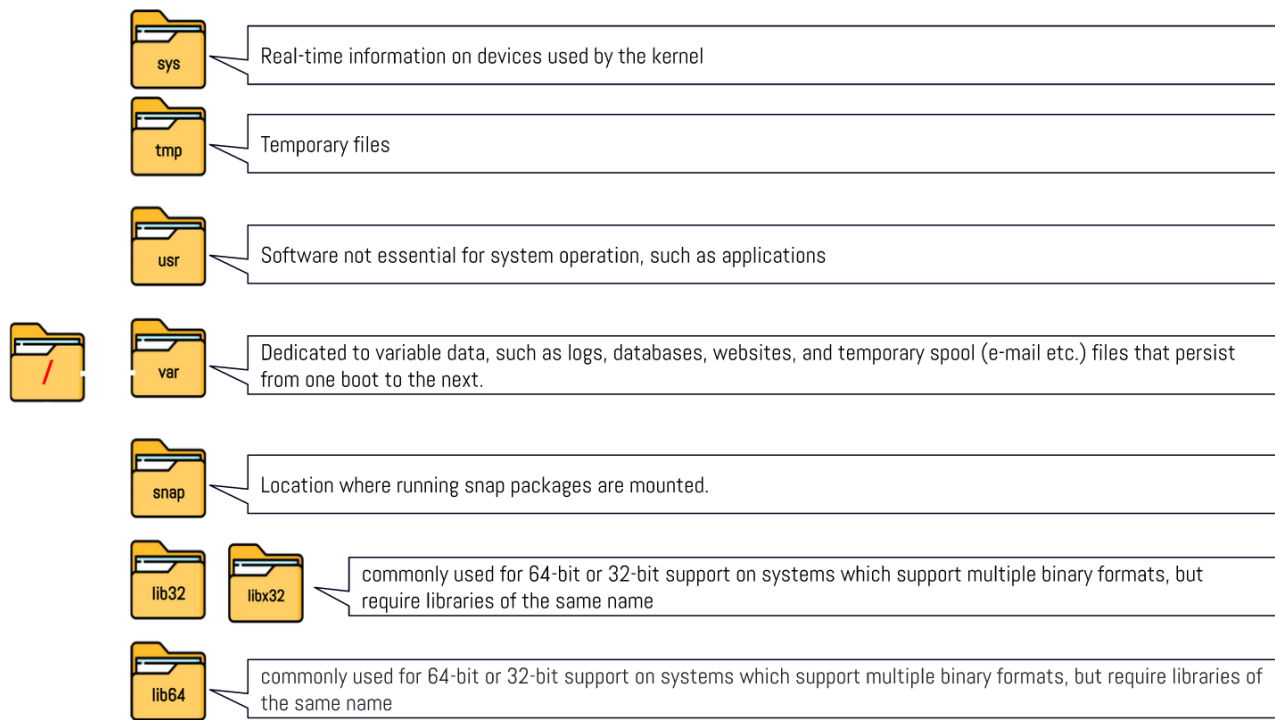
```

A terminal window showing the output of the command 'ls -lg --full-time ~'. The background of the terminal is a dark blue/black color with a faint, stylized world map in a lighter blue/purple hue. The text is white and green, with some file names in red and blue. The output shows a list of files and directories in the user's home directory, including 'Desktop', 'Documents', 'Downloads', 'lab4files', 'Music', 'Pictures', 'practicels', 'Public', 'snap', 'Templates', and 'Videos'. The file 'lab4files.zip' is highlighted in red, and 'practicels.tar.xz' is highlighted in red. The file 'practicels' is highlighted in blue. The file 'lab4files' is highlighted in blue. The file 'lab4files.zip' is highlighted in red. The file 'practicels.tar.xz' is highlighted in red. The file 'practicels' is highlighted in blue. The file 'Public' is highlighted in blue. The file 'snap' is highlighted in blue. The file 'Templates' is highlighted in blue. The file 'Videos' is highlighted in blue.

```
cgcollado@cis106vm:~$ ls -lg --full-time ~
total 5608
drwxrwxr-x 2 4096 2023-02-03 00:39:22.757748808 -0500 carloscollado88
drwxr-xr-x 4 4096 2023-03-12 17:24:28.925102727 -0400 Desktop
drwxr-xr-x 2 4096 2023-02-01 23:23:15.732000000 -0500 Documents
drwxr-xr-x 2 4096 2023-03-12 17:24:19.377150792 -0400 Downloads
drwxrwxr-x 2 4096 2022-02-22 14:18:06.000000000 -0500 lab4files
-rw-rw-r-- 1 3460751 2023-03-05 19:19:59.112875075 -0500 lab4files.zip
drwxr-xr-x 2 4096 2023-02-01 23:23:15.732000000 -0500 Music
drwxr-xr-x 2 4096 2023-02-22 23:32:41.621645057 -0500 Pictures
drwxrwxr-x 2 4096 2022-02-27 13:46:18.000000000 -0500 practicels
-rw-rw-r-- 1 2229212 2023-02-21 21:10:00.000000000 -0500 practicels.tar.xz
drwxr-xr-x 2 4096 2023-02-01 23:23:15.732000000 -0500 Public
drwx----- 5 4096 2023-02-02 23:59:36.545238097 -0500 snap
drwxr-xr-x 2 4096 2023-02-01 23:23:15.732000000 -0500 Templates
drwxr-xr-x 2 4096 2023-02-01 23:23:15.732000000 -0500 Videos
cgcollado@cis106vm:~$
```

Linux file System





All Commands

Command	What it does	Syntax	Example
<code>pwd</code>	Display current directory	<code>pwd</code>	<code>pwd</code>
<code>cd</code>	It change the current working directory.	<code>cd + destination</code>	<code>cd /Home</code>
<code>ls</code>	list the content of a given directory or directory itself	<code>ls + option + directory</code> to list	<code>ls -a</code> <code>/Downloads</code>

Basic Terminology

- **File system**

A file system is a set of data structures, interfaces, abstractions, and APIs that work together to manage any type of file on any type of storage device, in a consistent manner. Each operating system uses a particular file system to manage the files.

- **Current directory**

The current directory is the directory or folder where you are currently working.

- **Parent directory**

Refers to the directory above another directory. Every directory, except the root directory, lies beneath another directory. The higher directory is called the parent directory, and the lower directory is called a subdirectory.

- **The difference between your home directory and the home directory**

The home directory is in reference of the root directory where all the main files of the OS are stored. *My home directory* is a subdirectory of the root directory.

- **Pathname**

Pathname indicates the location of a file. It does work like an address giving the exact location of a file. Is a specific label for a file's directory location while within an operating system.

- **Relative path**

Is use when the file or directory is inside of the current working directory so no absolute path is required to locate the directory.

- **Absolute path**

Is use to find the location of a file or directory from the root of the file system.