Practical Assignment Basic Linux Command & File Management

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★ Basic Linux Commands

Display the directory path that you are currently in.

List all the directories in your current working directory with their permissions.

Change your shell's current working directory to the first listed directory in the previous question. Use the appropriate command without argument to change your current working directory to *home*.

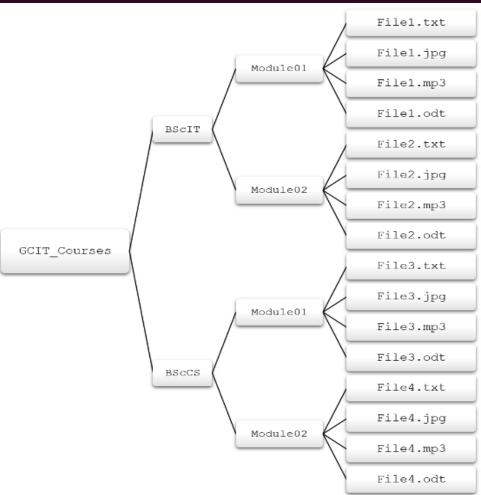
```
sujalkchuwan@sujalkchuwan-VirtualBox:~$ sudo adduser gcit_12220076
Adding user `gcit_12220076' ...
Adding new group `gcit_12220076' (1007) ...
Adding new user `gcit_12220076' (1006) with group `gcit_12220076' ...
Creating home directory `/home/gcit_12220076' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for gcit_12220076
Enter the new value, or press ENTER for the default
    Full Name []: sujal k chuwan
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
sujalkchuwan@sujalkchuwan-VirtualBox:~$
```

★ Files and Directories

Create files and directories as per the given structure.

Create three directories using a single command line, namely documents, pictures, and audio in your home directory. [.odt files must have information about yourself as content]

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Move the .txt files to the document directory, the image filecd..s to the pictures directory, and the audio files to the audio directory. *[Hint: Continue in your current directory]*

```
^C
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCCS/module82$ mv file1.txt -/Documents
mv: cannot stat 'file1.txt': No such file or directory
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCCS/module82$ mv file.txt -/Documents
mv: cannot stat 'file.txt': No such file or directory
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCCS/module82$ cd ..
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCCS cd ..
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL$ cd module81
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL$ mv file.txt -/Documents
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL*/module81$ mv file.typ -/Pictures
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL*/module81$ mv file.mp3 -/Pictures
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL*/module81$ mv file.mp3 -/Music
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/BSCL*/module81$ mv file.mp3 -/Music
```

```
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02

command "mc' not found, but can be installed with:

suda apt install nc

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$ mv file2.txt -/Documents

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$ mv file2.typg -/Pictures

Command "mc' not found, but can be installed with:

suda sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$ mv file2.jpg -/Pictures

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$ mv file2.jpg -/Pictures

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$ mv file2.mp3 -/Music

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$

sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module02$
```

Copy the .odt files to the document directory. Then remove the entire source directories containing the original copy of .odt files in the BScIT directory.

```
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module01$ mv file2.odt ~/Documents
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module01$ cd ..
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt$ cd module01
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module01$ mv file.odt ~/Documents
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt/module01$ cd ..
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt$ rm -r module01 module02
sujalkchuwan@sujalkchuwan-VirtualBox:-/Desktop/GCIT_Course/Bsctt$
```

From the BScCS directory, remove all the .odt files without removing their immediate directory.

```
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course$ cd BScCS
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS$ cd module01
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS/module01$ rm *.odt
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS$ cd module02
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS$ cd module02
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS/module02$ rm *.odt
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop/GCIT_Course/BScCS/module02$
```

Remove the entire "GCIT Course Structure" directory.

```
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop$ rm -r GCIT_Course
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop$ ls
file file1 file2 folder folder1 folder2
sujalkchuwan@sujalkchuwan-VirtualBox:~/Desktop$
```

★ Files and Permissions

Create a new group workshop with a GID of 2022.

Create the trainer1, trainer2, and trainer3 users with a workshop as their supplementary cleargroup. Use "trainer 22" as the default password for all the users.

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Create a directory called "Training Materials" in your present working directory.

```
Sujalkchweensvalkchween'ttaalkoo:-5 sudo su
[audio] password for sujalkchwam:
rootgeujalkchwam: virtualkoo:-home/sujalkchwams sudo adduser trainer!
adduser: The user 'trainer!' already exist.
rootgeujalkchwam-virtualkoo:-home/sujalkchwams sudo adduser trainer!
adduser the user 'trainer!' already exist.
rootgeujalkchwam-virtualkoo:-home/sujalkchwams sudo adduser trainer!
adduser: The user 'trainer!' already exist.
rootgeujalkchwam-virtualkoo:-home/sujalkchwams dud "training naterial"
rootgeujalkchwam-virtualkoo:-home/sujalkchwams did "training naterial"
rootgeujalkchwam-virtualkoo:-home/sujalkchwams ts
contagualkchwams-virtualkoo:-home/sujalkchwams ts
contagualkchwam-virtualkoo:-home/sujalkchwams ts
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ts
contagualkchwams
```

Change the group ownership of the "Training Materials" directory to the workshop group. Ls

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Check whether users in the workshop group can create and edit files in the "Training Materials" directory.

```
trainer1@sujalkchuwan-VirtualBox: /home/sujalkchuwan/tra...
sujalkchuwan@sujalkchuwan-VirtualBox:-$ cd training material
bash: cd: too many arguments
sujalkchuwan@sujalkchuwan-VirtualBox:-$ ls
             file
             file1
             folder sample
sujalkchuwan@sujalkchuwan-VirtualBox:-$ cd 'training material'
sujalkchuwan@sujalkchuwan-VirtualBox:-/t
                                              ng material$ touch file1
touch: cannot touch 'file1': Permission denied
sujalkchuwan@sujalkchuwan-VirtualBox:-/training material$ sudo su trainer1
[sudo] password for sujalkchuwan:
traineri@sujalkchuwan-VirtualBox:/home/sujalkchuwan/training material$ touchfile
touchfile1: command not found
traineri@sujalkchuwan-VirtualBox:/home/sujalkchuwan/training material$ touch fil
e1
touch: cannot touch 'file1': Permission denied
trainer1@sujalkchuwan-VirtualBox:/home/sujalkchuwan/training material$
```

Set permissions on the "Training Materials" directory. On the "Training Materials" directory, configure read, write, and execute permissions for the owner and group, and no permissions for other users. Verify that the permissions are correctly set.

Clear

```
Terminal
                                          sujalkchuwan@sujalkchuwan-VirtualBox: ~ Q =
sujalkchuwan@sujalkchuwan-VirtualBox:~$ sudo chmod o-rwx "training material"
[sudo] password for sujalkchuwan:
 sujalkchuwan@sujalkchuwan-VirtualBox: $ ls -al
total 136
                                                                                        90 23 18:06
drwxr-x--- 22 sujalkchuwan sujalkchuwan 4096 題
drwxr-xr-x 14 root root 4096 夏
                                                                                        90 23 17:18
drwxr-xr-x 14 root
 -rw----- 1 sujalkchuwan sujalkchuwan 12288 🖥
-rw----- 1 sujalkchuwan sujalkchuwan 3887 🖥
                                                                                        90 10 13:06
                                                                                                                .baby.swp
.bash_history
                                                                                        90 23 18:19
 -rw-r--r-- 1 sujalkchuwan sujalkchuwan
-rw-r--r-- 1 sujalkchuwan sujalkchuwan
                                                                            220 🖥
                                                                                        90 4 14:48
90 4 14:48
                                                                                                                 .bash_logout
                                                                           3771
                                                                                                                .bashrc
drwx----- 11 sujalkchuwan sujalkchuwan
drwxrwxr-x 2 sujalkchuwan sujalkchuwan
                                                                           4096
                                                                                              4 15:21
                                                                           4096
                                                                                              4 16:03
drwx----- 10 sujalkchuwan sujalkchuwan
                                                                           4096
                                                                                               4 15:38
drwx----- 10 sujalkchuwan sujalkchuwan drwxr-xr-x 5 sujalkchuwan sujalkchuwan drwxr-xr-x 2 sujalkchuwan sujalkchuwan -rw-rw-r-- 1 sujalkchuwan sujalkchuwan -rwxrwxrwx 1 sujalkchuwan sujalkchuwan -rw-rw-r-- 1 sujalkchuwan sujalkchuwan drwx---- 2 sujalkchuwan sujalkchuwan drwxr-xr-x 2 sujalkchuwan sujalkchuwan drwxr-xr-x 1 sujalkchuwan sujalkchuwan drwxr-xr-x 2 sujalkchuwan sujalkchuwan -rw-r--- 1 sujalkchuwan sujalkchuwan sujalkchuwan sujalkchuwan
                                                                           4096 $ 90 23 16:10
                                                                                        90 23 16:06
                                                                                               4 15:16
                                                                                        90 12 14:33
                                                                                                                file
                                                                              13 8 90 11 15:05
                                                                                             12 14:34
                                                                                        90 12 14:33
                                                                                0 1
                                                                                                                folder
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4096 星 9° 23 15:59
                                                                           4096 ₫
                                                                                        90 23 15:59
                                                                            807
                                                                                               4 14:48
                                                                                                                .profile
```

Confirm that users in the workshop group can now create and edit files in the "Training Materials" directory. Users not in the workshop group cannot edit or create files in the "Training Materials" directory.

