

# Interactive Cares DevOps Career Path - Assignment 3

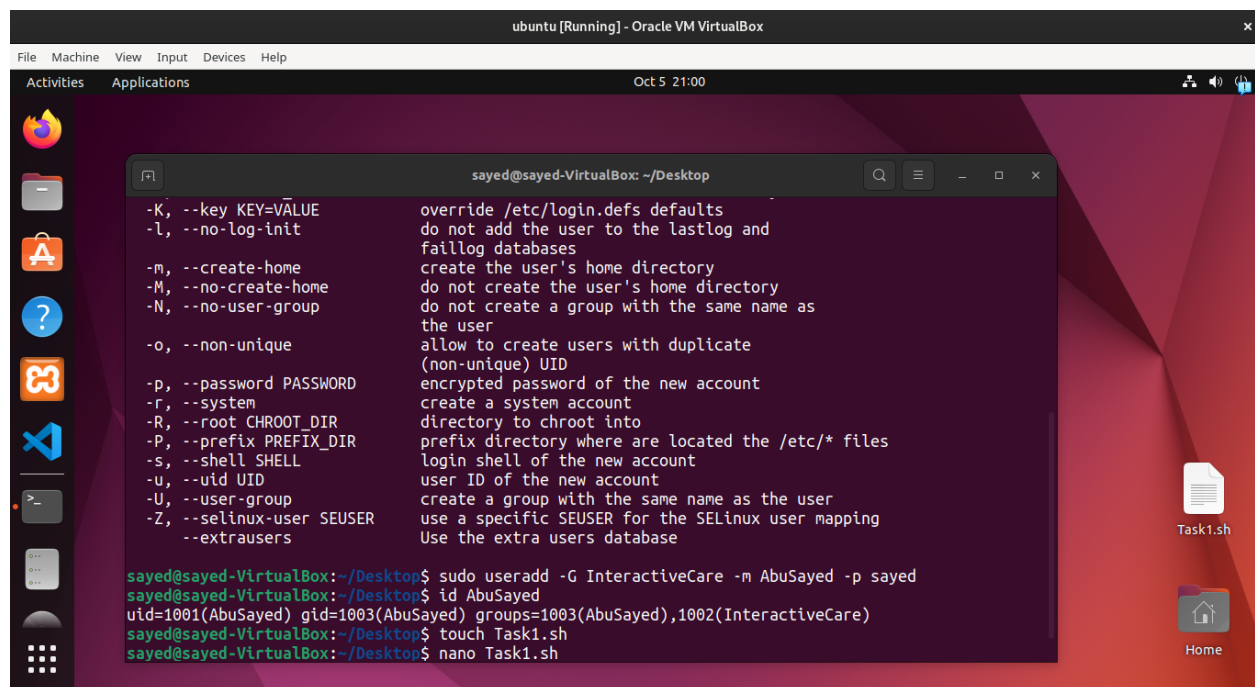
## Abu Sayed - ICDCP 28

### Linux basic commands assignment

#### Task:1

The instruction was: - Create a user with a user group

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task1.sh>



The screenshot shows a terminal window titled 'sayed@sayed-VirtualBox: ~/Desktop'. It displays the help text for the 'useradd' command, followed by the execution of 'sudo useradd -G InteractiveCare -m AbuSayed -p sayed'. The output shows the user 'AbuSayed' is created with UID 1001 and GID 1003. The terminal also shows the creation of a file 'Task1.sh' and the opening of it with 'nano Task1.sh'.

```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Applications Oct 5 21:00

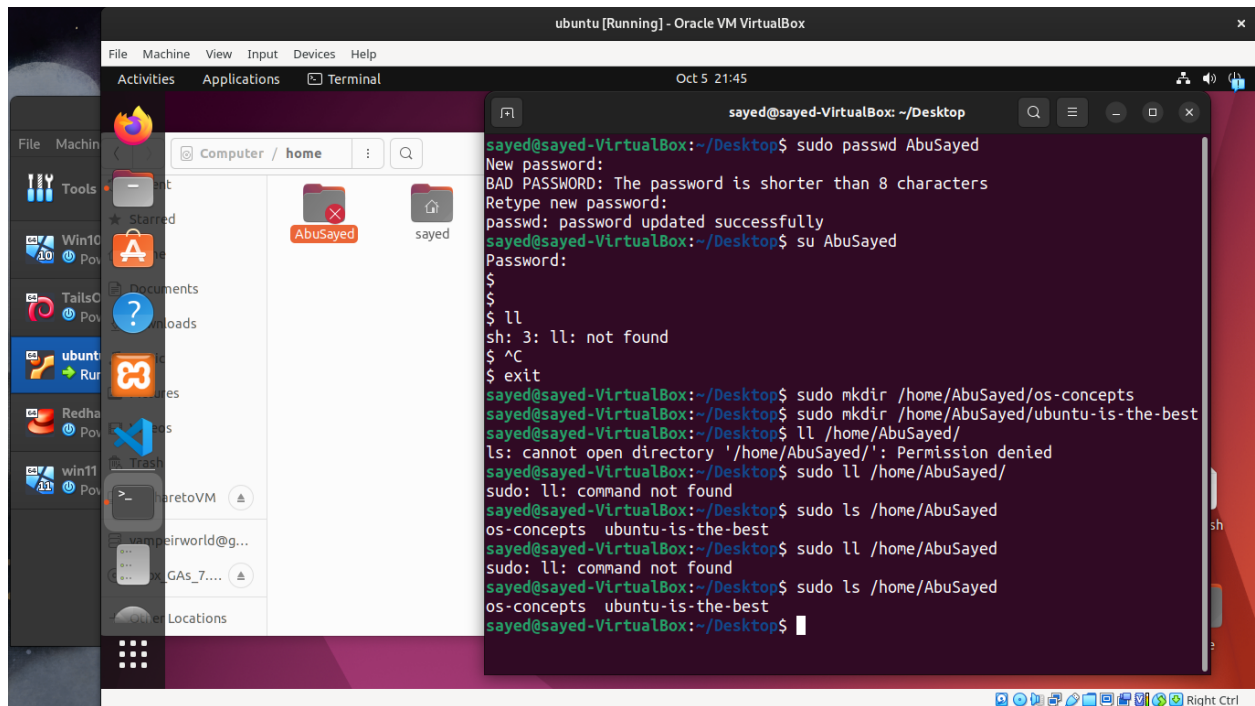
sayed@sayed-VirtualBox: ~/Desktop
-K, --key KEY=VALUE      override /etc/login.defs defaults
-l, --no-log-init         do not add the user to the lastlog and
                          faillog databases
-m, --create-home         create the user's home directory
-M, --no-create-home      do not create the user's home directory
-N, --no-user-group       do not create a group with the same name as
                          the user
-o, --non-unique          allow to create users with duplicate
                          (non-unique) UID
-p, --password PASSWORD   encrypted password of the new account
-r, --system              create a system account
-R, --root CHROOT_DIR     directory to chroot into
-P, --prefix PREFIX_DIR   prefix directory where are located the /etc/* files
-s, --shell SHELL         login shell of the new account
-u, --uid UID             user ID of the new account
-U, --user-group          create a group with the same name as the user
-Z, --selinux-user SEUSER use a specific SEUSER for the SELinux user mapping
--extrausers              Use the extra users database

sayed@sayed-VirtualBox:~/Desktop$ sudo useradd -G InteractiveCare -m AbuSayed -p sayed
sayed@sayed-VirtualBox:~/Desktop$ id AbuSayed
uid=1001(AbuSayed) gid=1003(AbuSayed) groups=1003(AbuSayed),1002(InteractiveCare)
sayed@sayed-VirtualBox:~/Desktop$ touch Task1.sh
sayed@sayed-VirtualBox:~/Desktop$ nano Task1.sh
```

#### Task:2

The instruction was: - Create two directories in user's home directory named os-concepts and ubuntu-is-the-best

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task2.sh>

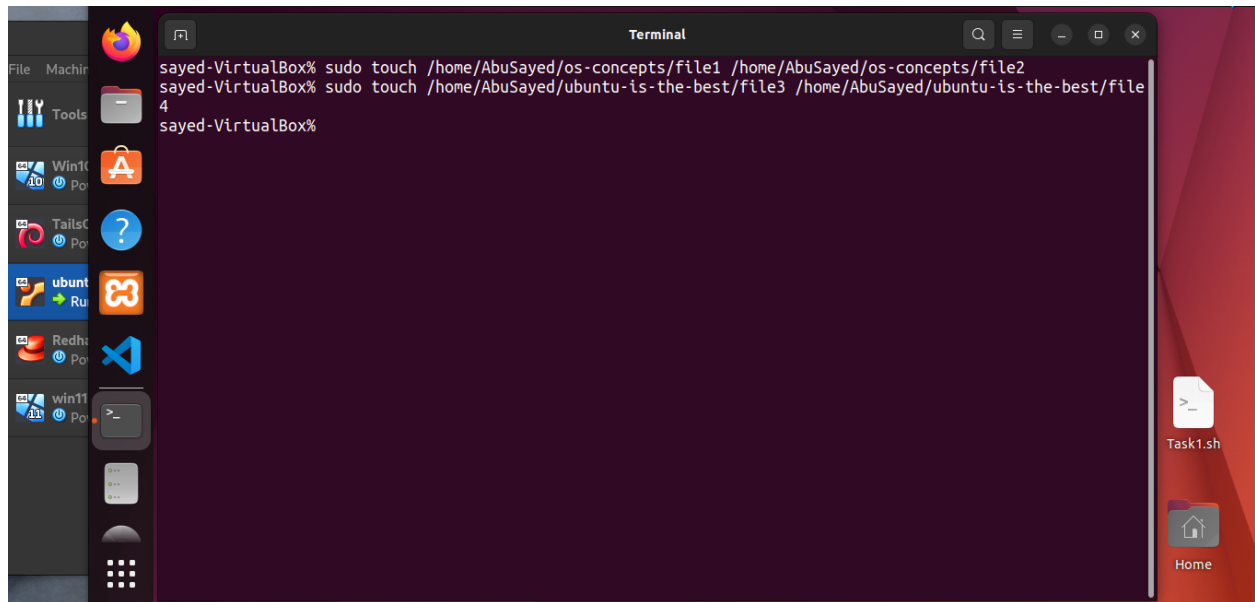


```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Applications Terminal
Oct 5 21:45
sayed@sayed-VirtualBox: ~/Desktop
sayed@sayed-VirtualBox:~/Desktop$ sudo passwd AbuSayed
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
sayed@sayed-VirtualBox:~/Desktop$ su AbuSayed
Password:
$
$ ll
sh: 3: ll: not found
$ ^C
$ exit
sayed@sayed-VirtualBox:~/Desktop$ sudo mkdir /home/AbuSayed/os-concepts
sayed@sayed-VirtualBox:~/Desktop$ sudo mkdir /home/AbuSayed/ubuntu-is-the-best
sayed@sayed-VirtualBox:~/Desktop$ ll /home/AbuSayed/
ls: cannot open directory '/home/AbuSayed/': Permission denied
sayed@sayed-VirtualBox:~/Desktop$ sudo ll /home/AbuSayed/
sudo: ll: command not found
sayed@sayed-VirtualBox:~/Desktop$ sudo ls /home/AbuSayed
os-concepts  ubuntu-is-the-best
sayed@sayed-VirtualBox:~/Desktop$ sudo ll /home/AbuSayed
sudo: ll: command not found
sayed@sayed-VirtualBox:~/Desktop$ sudo ls /home/AbuSayed
os-concepts  ubuntu-is-the-best
sayed@sayed-VirtualBox:~/Desktop$
```

## Task:3

The instruction was: - Create two files on each directory

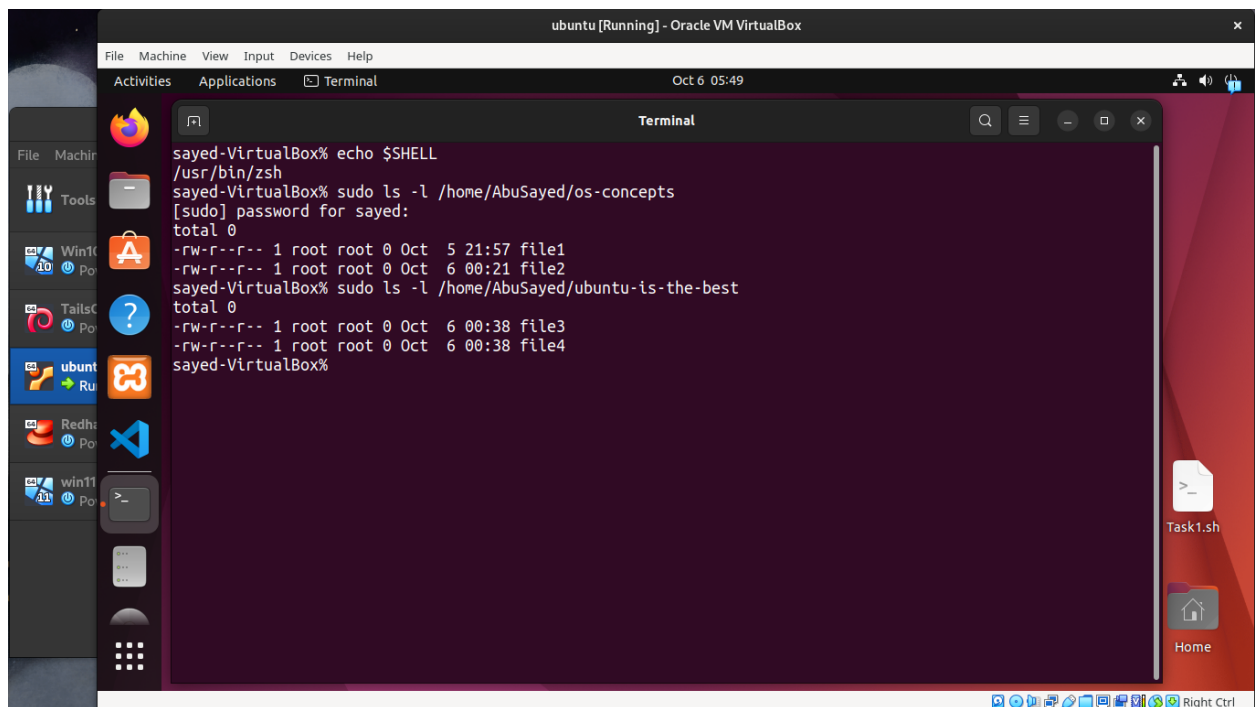
<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task3.sh>



## Task:4

The instruction was: - List the files with detailed information ( including file permission )

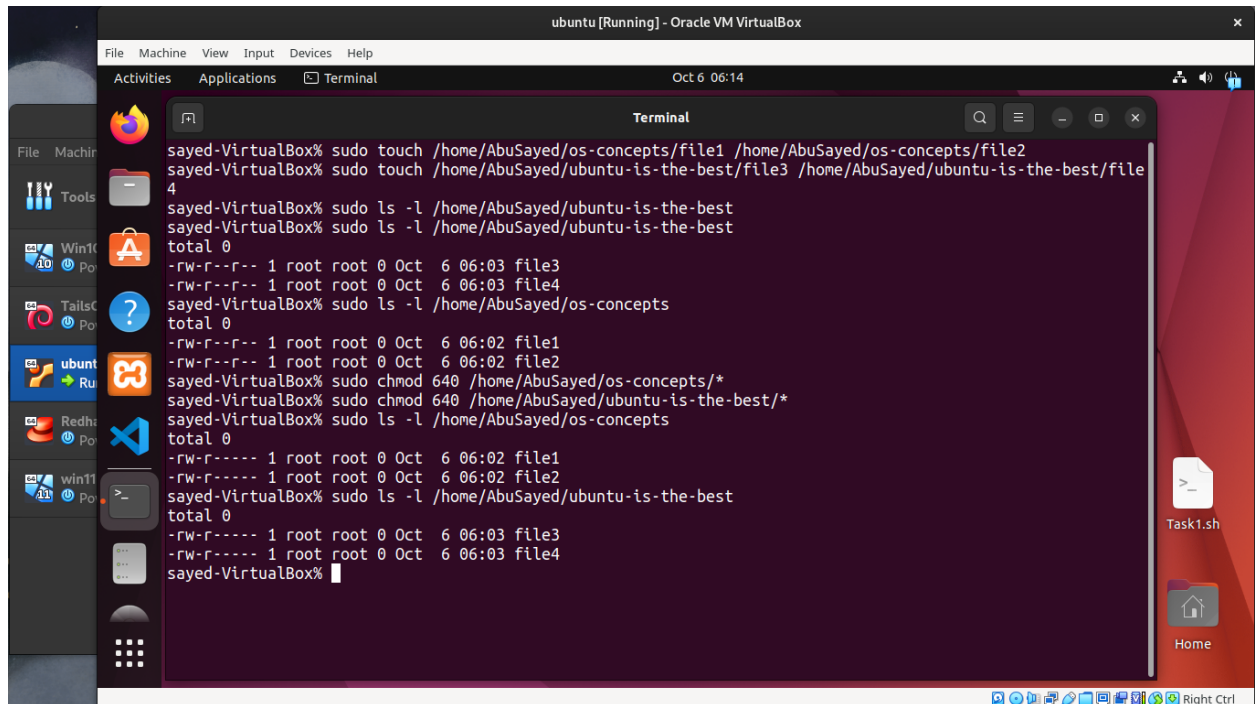
<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task4.sh>



## Task:5

The instruction was: - Update file permission so that owner can read,write and group can only read and others can not do anything

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task5.sh>



The screenshot shows a terminal window titled "Terminal" within an Oracle VM VirtualBox environment. The terminal displays the execution of a script named Task5.sh. The script performs the following actions:

- Creates files: `sudo touch /home/AbuSayed/os-concepts/file1 /home/AbuSayed/os-concepts/file2` and `sudo touch /home/AbuSayed/ubuntu-is-the-best/file3 /home/AbuSayed/ubuntu-is-the-best/file4`.
- Lists files with permissions: `sudo ls -l /home/AbuSayed/ubuntu-is-the-best` and `sudo ls -l /home/AbuSayed/os-concepts`.
- Changes permissions: `sudo chmod 640 /home/AbuSayed/os-concepts/*` and `sudo chmod 640 /home/AbuSayed/ubuntu-is-the-best/*`.
- Lists files with permissions again: `sudo ls -l /home/AbuSayed/os-concepts` and `sudo ls -l /home/AbuSayed/ubuntu-is-the-best`.

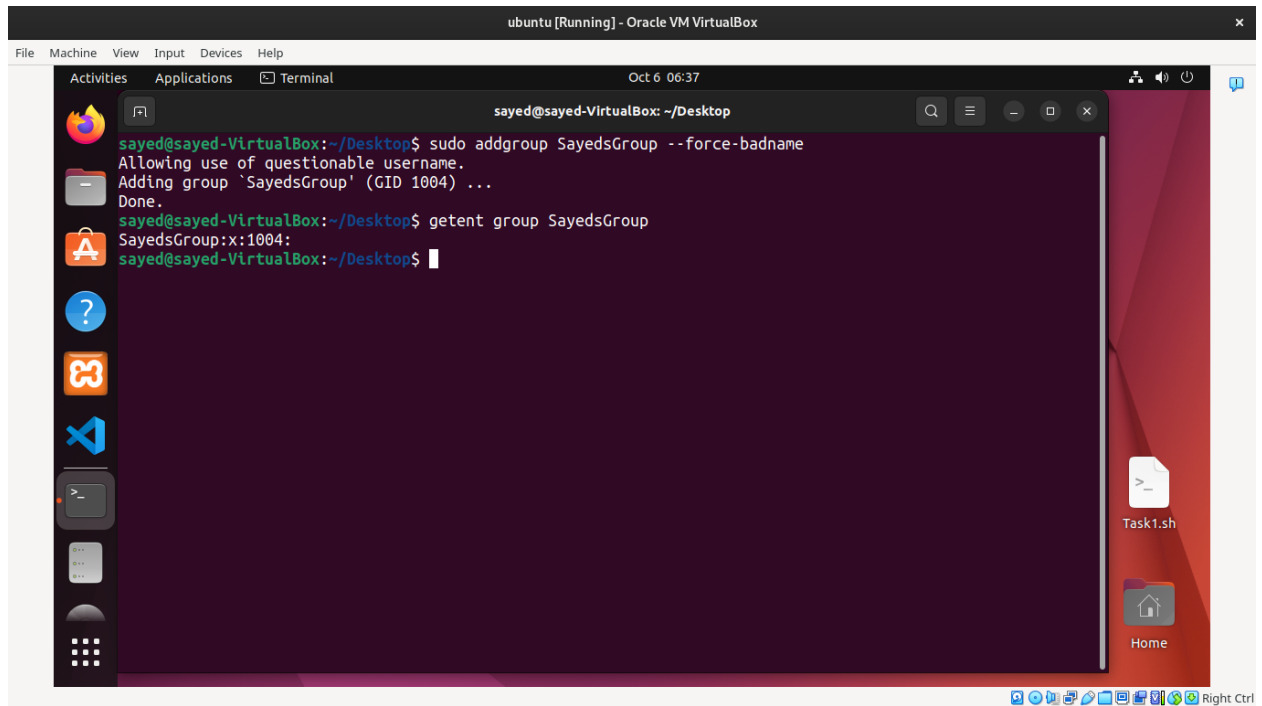
The output of the `ls -l` commands shows the following permissions:

```
-rw-r--r-- 1 root root 0 Oct 6 06:03 file3
-rw-r--r-- 1 root root 0 Oct 6 06:03 file4
total 0
-rw-r--r-- 1 root root 0 Oct 6 06:02 file1
-rw-r--r-- 1 root root 0 Oct 6 06:02 file2
total 0
-rw-r----- 1 root root 0 Oct 6 06:02 file1
-rw-r----- 1 root root 0 Oct 6 06:02 file2
total 0
-rw-r----- 1 root root 0 Oct 6 06:03 file3
-rw-r----- 1 root root 0 Oct 6 06:03 file4
```

## Task:6

The instruction was: - Create another group

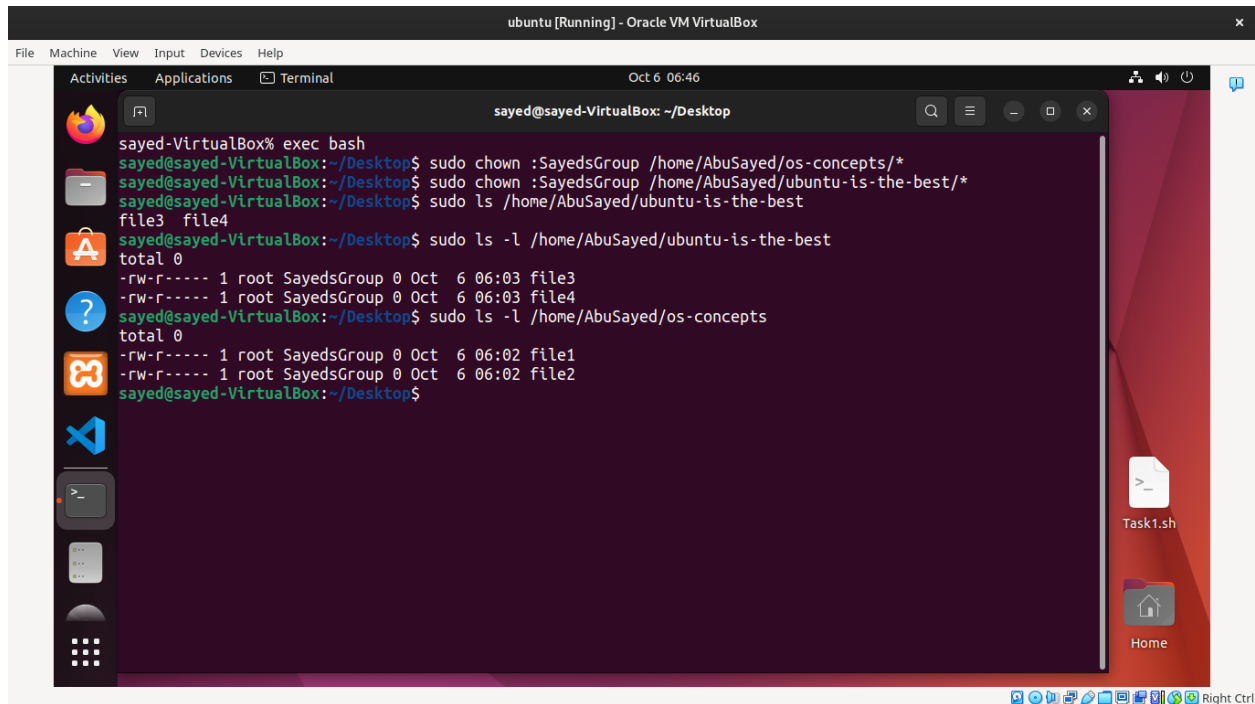
<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task6.sh>



## Task:7

The instruction was: - Update file ownership to the newly created group

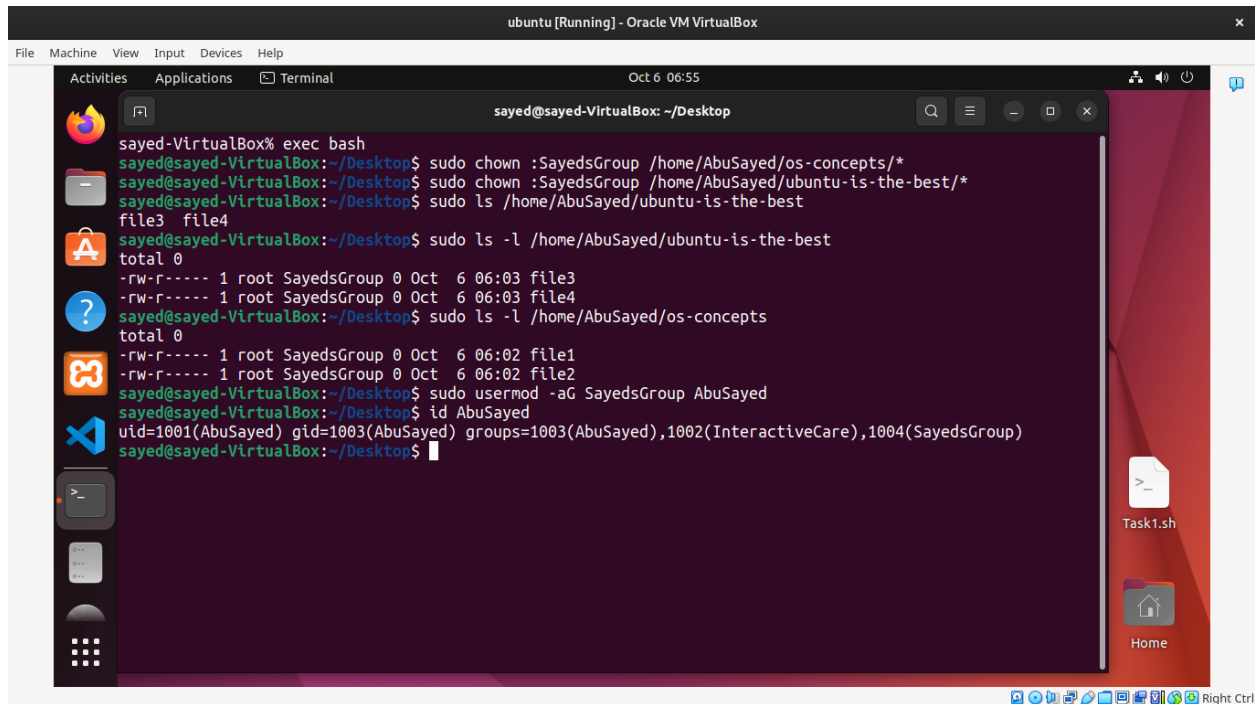
<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task7.sh>



## Task:8

The instruction was: - Add the user to the new group

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task8.sh>



## Task:9

The instruction was: - Create a file called crash.in ( File should contain the word crash in it ) in different directories and then find the file in all the locations using find command

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task9.sh>

```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Applications Terminal Oct 6 07:12
sayed@sayed-VirtualBox: ~/Desktop
sayed@sayed-VirtualBox:~/Desktop$ sudo ls -l /home/AbuSayed/os-concepts
total 0
-rw-r----- 1 root SayedsGroup 0 Oct 6 06:02 file1
-rw-r----- 1 root SayedsGroup 0 Oct 6 06:02 file2
sayed@sayed-VirtualBox:~/Desktop$ sudo echo "crash" > /home/AbuSayed/os-concepts/crash.in
bash: /home/AbuSayed/os-concepts/crash.in: Permission denied
sayed@sayed-VirtualBox:~/Desktop$ sudo echo "crash" | sudo tee /home/AbuSayed/os-concepts/crash.in
crash
sayed@sayed-VirtualBox:~/Desktop$ sudo cat /home/AbuSayed/os-concepts/crash.in
crash
sayed@sayed-VirtualBox:~/Desktop$ sudo ls ^C
sayed@sayed-VirtualBox:~/Desktop$ sudo ls /home/AbuSayed/os-concepts
crash.in file1 file2
sayed@sayed-VirtualBox:~/Desktop$ sudo cat /home/AbuSayed/os-concepts/crash.in
crash
sayed@sayed-VirtualBox:~/Desktop$ sudo nano /home/AbuSayed/os-concepts/crash.in
sayed@sayed-VirtualBox:~/Desktop$ sudo echo "crash" | sudo tee /home/AbuSayed/ubuntu-is-the-best/crash.in
crash
sayed@sayed-VirtualBox:~/Desktop$ sudo ls /home/AbuSayed/ubuntu-is-the-best
crash.in file3 file4
sayed@sayed-VirtualBox:~/Desktop$ sudo cat /home/AbuSayed/ubuntu-is-the-best/crash.in
crash
sayed@sayed-VirtualBox:~/Desktop$ sudo find / -name "crash.in"
find: '/run/user/1000/gvfs': Permission denied
find: '/run/user/1000/doc': Permission denied
/home/AbuSayed/os-concepts/crash.in
/home/AbuSayed/ubuntu-is-the-best/crash.in
sayed@sayed-VirtualBox:~/Desktop$
```

## Task:10

The instruction was: - Then, replace the lines with crash to broken to all files ( use sed, xargs )

<https://github.com/ImAbuSayed/Interactive-Cares-DevOps-Career-Path-Assignment-3/blob/main/Task10.sh>



