Interactive Cares DevOps Career Path Assignment-3

Submitted by: Md Shefat Al Mahmud

Topic: Linux basic commands assignment.

Task 01:

- Create a user with user group

```
sudo groupadd newgroup
sudo useradd -G newgroup -m user1 -p usr
sudo useradd -G newgroup -m user2 -p usr
id user2
```


Task 02:

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

```
sudo mkdir /home/shefat2002/os-concepts
sudo mkdir /home/shefat2002/ubuntu-is-the-best
ls /home/shefat2002
```

Task 03:

- Create two files on each directory

```
sudo touch /home/shefat2002/os-concepts/f1 /home/shefat2002/os-concepts/f2
```

```
sudo touch /home/shefat2002/ubuntu-is-the-best/f1 /home/shefat2002/ubuntu-is-the-best/f2
```


Task 04:

- List the files with detailed information (including file permission)

```
sudo ls -l /home/shefat2002/os-concepts
```

```
sudo ls -l /home/shefat2002/ubuntu-is-the-best
```


Task 05:

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

```
sudo chmod 640 /home/shefat2002/os-concepts/*
sudo chmod 640 /home/shefat2002/ubuntu-is-the-best/*
sudo ls -l /home/shefat2002/os-concepts
sudo ls -l /home/shefat2002/ubuntu-is-the-best
```

Task 06:

- Create another group

```
sudo addgroup newgroup2 --force-badname
getent group newgroup2
```


Task 07:

- Update file ownership to the newly created group

```
sudo chown :newgroup2 /home/shefat2002/os-concepts/*
sudo chown :newgroup2 /home/shefat2002/ubuntu-is-the-best/*
sudo ls -l /home/shefat2002/os-concepts
sudo ls -l /home/shefat2002/ubuntu-is-the-best
```


Task 08:

- Add the user to the new group
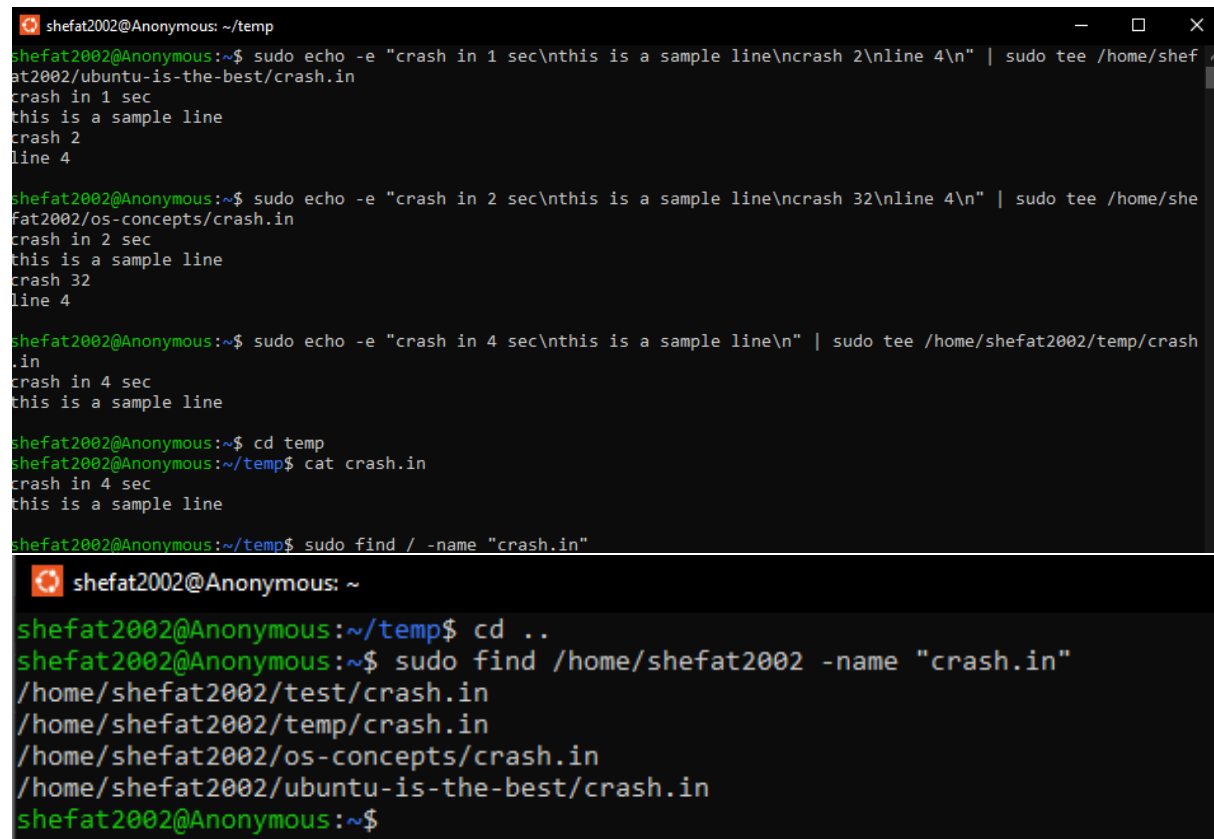
```
sudo usermod -aG newgroup2 shefat2002
id shefat2002
```

Task 09:

- 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

```
sudo echo -e "crash in 1 sec\nthis is a sample line\ncrash 2\nline 4\n" | sudo tee
/home/shefat2002/ubuntu-is-the-best/crash.in
sudo echo -e "crash in 2 sec\nthis is a sample line\ncrash 32\nline 4\n" | sudo tee
/home/shefat2002/os-concepts/crash.in
sudo echo -e "crash in 4 sec\nthis is a sample line\n" | sudo tee
/home/shefat2002/temp/crash.in
sudo find / -name "crash.in"
```
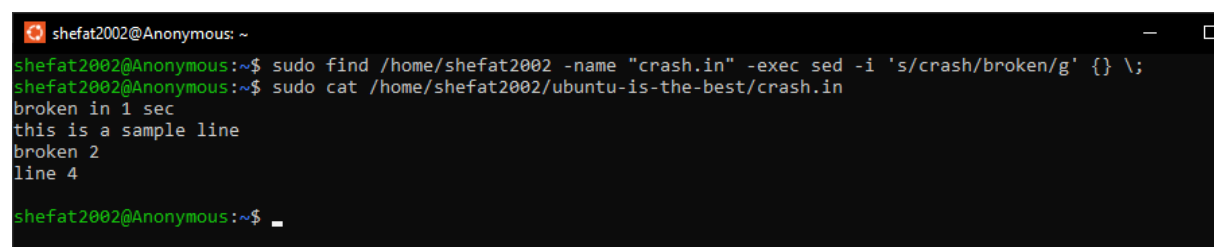

Task 10:

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

```
sudo find /home/shefat2002 -name "crash.in" -exec sed -i 's/crash/broken/g' {} \;
sudo cat /home/shefat2002/ubuntu-is-the-best/crash.in
sudo cat /home/shefat2002/temp/crash.in
```