Linux Basic Commands DevOps Assignment No 3

1. Create a user with user group

- sudo groupadd task1
- sudo useradd -g task1 -m tasu

```
tasniva@ubuntu:/$ sudo groupadd task1
tasniva@ubuntu:/$ sudo useradd -g task1 -m tasu
tasniva@ubuntu:/$ to tasu
ld: cannot open output file a.out: Permission denied
tasniva@ubuntu:/$ id tasu
uid=1004(tasu) gid=1004(task1) groups=1004(task1)
tasniva@ubuntu:/$
```

```
tasniva@ubuntu:/
:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/fals
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin
/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/no
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
tasniva:x:1000:1000:tasniva,,,:/home/tasniva:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
example1:x:1001:1001::/home/example1:/bin/sh
work1:x:1002:1002::/home/work1:/bin/sh
task:x:1003:1003::/home/task:/bin/sh
tasu:x:1004:1004::<u>/</u>home/tasu:/bin/sh
tasniva@uduntu:/5
```

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

```
tasniva@ubuntu:/
 Ŧ
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
tasniva@ubuntu:/$ su tasu
Password:
$ ls
bin
      dev
            lib
                   libx32
                               mnt
                                     root
                                           snap
                                                     sys var
            lib32 lost+found opt
boot
       etc
                                     run
                                           STV
                                                      tmp
cdrom home lib64 media
                                           swapfile usr
                                     sbin
                               ргос
$ pwd
$ cd home
$ pwd
/home
$ ls
tasniva tasu
$ cd tasu
$ ls
$ mkdir os-concept ubuntu-is-the-best
$ ls
os-concept ubuntu-is-the-best
```

3. Create two files on each directory

- > touch file1 file2
- > touch file3 file4

```
Retype new password:
passwd: password updated successfully
tasniva@ubuntu:/$ su tasu
Password:
$ ls
bin
       dev
             lib
                    libx32
                                mnt
                                     root snap
                                                      sys var
             lib32 lost+found opt
boot
       etc
                                      run
                                            srv
                                                      tmp
cdrom home lib64 media
                                proc sbin swapfile usr
$ pwd
$ cd home
$ pwd
/home
$ ls
tasniva tasu
$ cd tasu
$ ls
$ mkdir os-concept ubuntu-is-the-best
os-concept ubuntu-is-the-best
$ cd os-concept
$ touch file1 file2
$ ls
file1 file2
$ cd ..
$ ls
os-concept ubuntu-is-the-best
$ cd ubuntu-is-the-best
$ touch file3 file4
$ ls
file3 file4
```

- 4. List the files with detailed information (including file permission)
 - Is -IIs -I

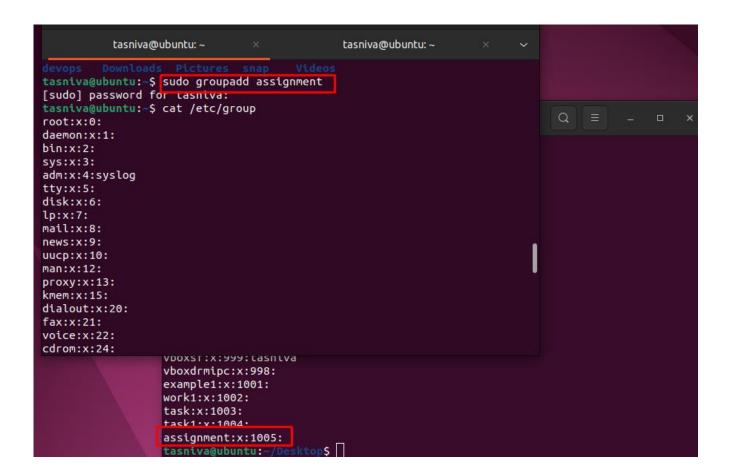
```
tasniva@ubuntu: /
 JŦ1
$ ls
os-concept ubuntu-is-the-best
$ cd ubuntu-is-the-best
$ ls
file3 file4
$ ls -l
total 0
-rw-r--r-- 1 tasu task1 0 অফুট 8 12:54 file3
-rw-r--r-- 1 tasu task1 0 অফ্ট 8 12:54 file4
$ cd os-concept
sh: 25: cd: can't cd to os-concept
$ cd ..
$ ls
os-concept ubuntu-is-the-best
$ cd os-concept
$ ls
file1 file2
$ ls -l
total 0
-rw-r--r-- 1 tasu task1 0 অফ্ট 8 12:51 file1
-rw-r--r-- 1 tasu task1 0 অফুট 8 12:51 file2
```

- 5. Update file permission so that owner can read, write and group can only read and others can not do anything
 - > chmod 640 file3

```
tasniva@ubuntu: /
-rw-r--r-- 1 tasu task1 0 আফুট 8 12:54 file3
-rw-r--r-- 1 tasu task1 0 অফ্ট 8 12:54 file4
$ cd os-concept
sh: 25: cd: can't cd to os-concept
$ ls
os-concept ubuntu-is-the-best
$ cd os-concept
$ ls
file1 file2
$ ls -l
total 0
-rw-r--r-- 1 tasu task1 0 আর্ট 8 12:51 file1
-rw-r--r-- 1 tasu task1 0 অফ্ট 8 12:51 file2
$ ls
file1 file2
$ chmod 640 file1
Ş ls -l
total 0
-rw-r---- 1 tasu task1 0 আফুট 8 12:51 file1
-rw-r--r-- 1 tasu task1 0 अपूर्णे 8 12:51 file2
```

6. Create another group like as devops (root user) :

groupadd devops



7. l	Jpdate	file (ownership	to the	newly	created	group	o:

> sudo chgrp devops file3

8. Add the user to the new group

> gpasswd -a kmhasan devops