

LAB- 02 Activity

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Section : BCS- 4H

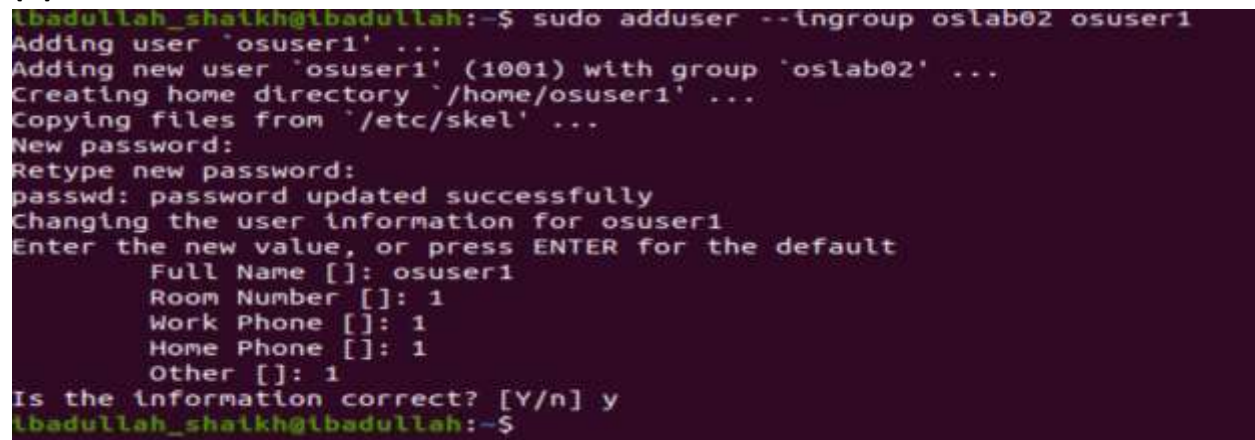
Task 1:

(a):



```
ibadullah_shaikh@ibadullah:~$ sudo addgroup oslab02
[sudo] password for ibadullah_shaikh:
Adding group 'oslab02' (GID 1001) ...
Done.
ibadullah_shaikh@ibadullah:~$
```

(b):



```
ibadullah_shaikh@ibadullah:~$ sudo adduser --ingroup oslab02 osuser1
Adding user 'osuser1' ...
Adding new user 'osuser1' (1001) with group 'oslab02' ...
Creating home directory '/home/osuser1' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for osuser1
Enter the new value, or press ENTER for the default
  Full Name []: osuser1
  Room Number []: 1
  Work Phone []: 1
  Home Phone []: 1
  Other []: 1
Is the information correct? [Y/n] y
ibadullah_shaikh@ibadullah:~$
```

```
ibadullah_shaikh@ibadullah:~$ sudo adduser --ingroup oslab02 osuser2
Adding user 'osuser2' ...
Adding new user 'osuser2' (1002) with group 'oslab02' ...
Creating home directory '/home/osuser2' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for osuser2
Enter the new value, or press ENTER for the default
    Full Name []: osuser2
    Room Number []: 1
    Work Phone []: 2
    Home Phone []: 2
    Other []: 2
Is the information correct? [Y/n] y
ibadullah_shaikh@ibadullah:~$
```

(c):

```
ibadullah_shaikh@ibadullah:~$ sudo adduser osuser2 sudo
Adding user 'osuser2' to group 'sudo' ...
Adding user osuser2 to group sudo
Done.
ibadullah_shaikh@ibadullah:~$
```

(d):

```
ibadullah_shaikh@ibadullah:~$ sudo login
ibadullah login: osuser2
Password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.8.0-43-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

6 updates can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

Your Hardware Enablement Stack (HWE) is supported until April 2025.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

osuser2@ibadullah:~$
```

Task 2:

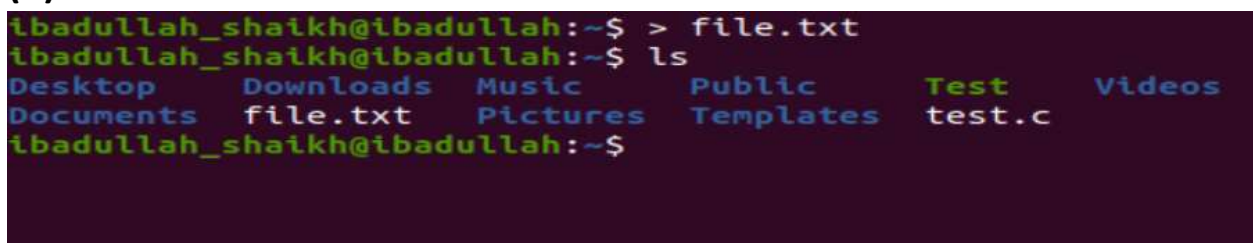


Task 4:

(a):



(b):



(c):

```
ibadullah_shaikh@ibadullah:~$ > file.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  Music      Public     Test       Videos
Documents  file.txt   Pictures   Templates  test.c
ibadullah_shaikh@ibadullah:~$ sudo chown abc file.txt
[sudo] password for ibadullah_shaikh:
ibadullah_shaikh@ibadullah:~$
```

(d):

```
ibadullah_shaikh@ibadullah:~$ mv file.txt newname.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  newname.txt Public     Test       Videos
Documents  Music      Pictures    Templates  test.c
ibadullah_shaikh@ibadullah:~$
```

(e):

```
ibadullah_shaikh@ibadullah:~$ touch file1.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  Music      Pictures    Templates  test.c
Documents  file1.txt  newname.txt Public       Test       Videos
ibadullah_shaikh@ibadullah:~$
```

(f):

```
ibadullah_shaikh@ibadullah:~$ cp -r file1.txt newname.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  Music      Pictures    Templates  test.c
Documents  file1.txt  newname.txt Public       Test       Videos
ibadullah_shaikh@ibadullah:~$
```

(g):

```
ibadullah_shaikh@ibadullah:~$ rm -r file1.txt
ibadullah_shaikh@ibadullah:~$ rm -r newname.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  Pictures    Templates  test.c
Documents  Music      Public      Test       Videos
ibadullah_shaikh@ibadullah:~$ rm -r test.c
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  Pictures    Templates  Videos
Documents  Music      Public      Test
ibadullah_shaikh@ibadullah:~$
```


(h):

```
ibadullah_shaikh@ibadullah:~$ > helloWorld.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  helloWorld.txt  Pictures  Templates  Videos
Documents  hello.txt   Music           Public    Test
ibadullah_shaikh@ibadullah:~$ chown helloworld.txt ibadullah_shaikh
chown: invalid user: 'helloworld.txt'
ibadullah_shaikh@ibadullah:~$ sudo chown osuser1 helloworld.txt
[sudo] password for ibadullah_shaikh:
chown: cannot access 'helloworld.txt': No such file or directory
ibadullah_shaikh@ibadullah:~$ sudo chown osuser1 helloWorld.txt
ibadullah_shaikh@ibadullah:~$ ls
Desktop    Downloads  helloWorld.txt  Pictures  Templates  Videos
Documents  hello.txt   Music           Public    Test
ibadullah_shaikh@ibadullah:~$
```

(i):

```
ibadullah_shaikh@ibadullah:~$ ps aux
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME
root	1	4.4	0.5	167840	11544	?	Ss	19:05	0:05
root	2	0.0	0.0	0	0	?	S	19:05	0:00
root	3	0.0	0.0	0	0	?	I<	19:05	0:00
root	4	0.0	0.0	0	0	?	I<	19:05	0:00
root	5	0.1	0.0	0	0	?	I	19:05	0:00
root	6	0.0	0.0	0	0	?	I<	19:05	0:00
root	7	0.0	0.0	0	0	?	I	19:05	0:00
root	8	0.0	0.0	0	0	?	I<	19:05	0:00
root	9	0.0	0.0	0	0	?	S	19:05	0:00
root	10	0.2	0.0	0	0	?	I	19:05	0:00
root	11	0.0	0.0	0	0	?	S	19:05	0:00
root	12	0.0	0.0	0	0	?	S	19:05	0:00
root	13	0.0	0.0	0	0	?	I	19:05	0:00
root	14	0.0	0.0	0	0	?	S	19:05	0:00
root	15	0.0	0.0	0	0	?	S	19:05	0:00
root	16	0.0	0.0	0	0	?	S	19:05	0:00
root	17	0.5	0.0	0	0	?	S	19:05	0:00
root	18	0.0	0.0	0	0	?	S	19:05	0:00
root	19	0.0	0.0	0	0	?	I	19:05	0:00
root	20	0.0	0.0	0	0	?	I<	19:05	0:00
root	21	0.0	0.0	0	0	?	S	19:05	0:00
root	22	0.0	0.0	0	0	?	S	19:05	0:00
root	23	0.5	0.0	0	0	?	S	19:05	0:00
root	24	0.0	0.0	0	0	?	S	19:05	0:00
root	25	0.0	0.0	0	0	?	I	19:05	0:00
root	26	0.0	0.0	0	0	?	I<	19:05	0:00

root	881	0.6	0.4	261100	9632	?	Ssl	19:05	0:00	/usr/lib/upi
root	957	0.1	0.8	294056	16508	?	Ssl	19:05	0:00	/usr/lib/pa
colord	1095	1.2	0.8	257956	16804	?	Ssl	19:05	0:01	/usr/libexe
root	1130	0.0	0.0	0	0	?	I	19:05	0:00	[kworker/2:
root	1169	0.1	0.4	176176	9684	?	Sl	19:06	0:00	gdm-session
ibadull+	1181	3.8	0.5	19240	10444	?	Ss	19:06	0:01	/lib/system
ibadull+	1182	0.0	0.1	169248	3504	?	S	19:06	0:00	(sd-pam)
ibadull+	1187	1.5	0.9	1155084	18660	?	S<sl	19:06	0:00	/usr/bin/pu
ibadull+	1189	1.5	1.2	520348	24212	?	SNsl	19:06	0:00	/usr/libexe
ibadull+	1193	3.5	0.2	8280	5576	?	Ss	19:06	0:01	/usr/bin/dbi
ibadull+	1195	0.3	0.3	249156	7528	?	Sl	19:06	0:00	/usr/bin/gn
ibadull+	1200	0.5	0.4	248668	7876	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1205	0.1	0.4	382060	8432	?	Sl	19:06	0:00	/usr/libexe
ibadull+	1224	0.4	0.6	326400	11772	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1230	0.1	0.3	172988	6692	tty2	Ssl+	19:06	0:00	/usr/lib/gd
ibadull+	1233	10.0	2.9	1116672	57812	tty2	Rl+	19:06	0:04	/usr/lib/xo
ibadull+	1234	0.1	0.3	244844	6316	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1238	0.4	1.8	555236	36628	?	Sl	19:06	0:00	/usr/libexe
ibadull+	1246	0.1	0.5	327572	11568	?	Sl	19:06	0:00	/usr/libexe
ibadull+	1251	0.0	0.3	246948	7092	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1269	0.1	0.3	244672	6492	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1276	0.1	0.4	325696	9024	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1285	0.5	0.8	199764	15968	tty2	Sl+	19:06	0:00	/usr/libexe
ibadull+	1361	0.0	0.0	6040	456	?	Ss	19:06	0:00	/usr/bin/ss
ibadull+	1393	0.0	0.4	309752	9564	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1398	0.2	0.2	7248	4284	?	S	19:06	0:00	/usr/bin/dbi
ibadull+	1427	0.0	0.2	99032	4236	?	Ssl	19:06	0:00	/usr/libexe
ibadull+	1434	1.4	0.9	495696	17596	?	Ssl	19:06	0:00	/usr/libexe

Note: When I wrote the kill command, it deletes that id and whole user. Every time it does the same.

(j):

```
ibadullah_shaikh@ibadullah:~$ locate "lab"
/boot/grub/i386-pc/search_label.mod
/etc/X11/fonts/Type1/xfonts-scalable.scale
/etc/update-motd.d/90-updates-available
/home/ibadullah_shaikh/filelab3.txt
/home/ibadullah_shaikh/lab.txt
/home/ibadullah_shaikh/labfile.txt
/snap/core18/1944/sbin/dosflabel
/snap/core18/1944/sbin/e2label
/snap/core18/1944/sbin/fatlabel
/snap/core18/1944/sbin/swaplabel
/snap/core18/1944/usr/bin/slabtop
/snap/core18/1944/usr/lib/x86_64-linux-gnu/perl-base/unicore/lib/InSC/Syllable.
pl
/snap/core18/1944/usr/lib/x86_64-linux-gnu/xtables/libxt_connlabel.so
/snap/core18/1944/usr/share/bash-completion/completions/e2label
/snap/core18/1944/usr/share/bash-completion/completions/swaplabel
/snap/core18/1944/usr/share/icons/hicolor/scalable
/snap/core18/1944/usr/share/icons/hicolor/scalable/apps
/snap/core18/1944/usr/share/icons/hicolor/scalable/apps/gvim.svg
/snap/core18/1944/usr/share/zoneinfo/Africa/Malabo
/snap/core18/1944/usr/share/zoneinfo/right/Africa/Malabo
/snap/core18/1988/sbin/dosflabel
/snap/core18/1988/sbin/e2label
/snap/core18/1988/sbin/fatlabel
/snap/core18/1988/sbin/swaplabel
/snap/core18/1988/usr/bin/slabtop
/snap/core18/1988/usr/lib/x86_64-linux-gnu/perl-base/unicore/lib/InSC/Syllable.
```

=> There were many files cotaining "lab" keyword, I just attached just one Screenshot.

(k):

```
ibadullah_shaikh@ibadullah:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            919M   0    919M   0% /dev
tmpfs           190M  1.3M  189M   1% /run
/dev/sda5       24G   7.7G   16G  34% /
tmpfs           947M   0    947M   0% /dev/shm
tmpfs           5.0M  4.0K   5.0M   1% /run/lock
tmpfs           947M   0    947M   0% /sys/fs/cgroup
/dev/loop0       56M   56M     0 100% /snap/core18/1944
/dev/loop1      219M  219M     0 100% /snap/gnome-3-34-1804/66
/dev/loop2       56M   56M     0 100% /snap/core18/1988
/dev/loop3       52M   52M     0 100% /snap/snap-store/518
/dev/loop4       65M   65M     0 100% /snap/gtk-common-themes/1514
/dev/loop5       32M   32M     0 100% /snap/snapd/10707
/dev/loop6       32M   32M     0 100% /snap/snapd/11036
/dev/sda1       511M  4.0K   511M   1% /boot/efl
tmpfs           190M  28K   190M   1% /run/user/1000
ibadullah_shaikh@ibadullah:~$
```