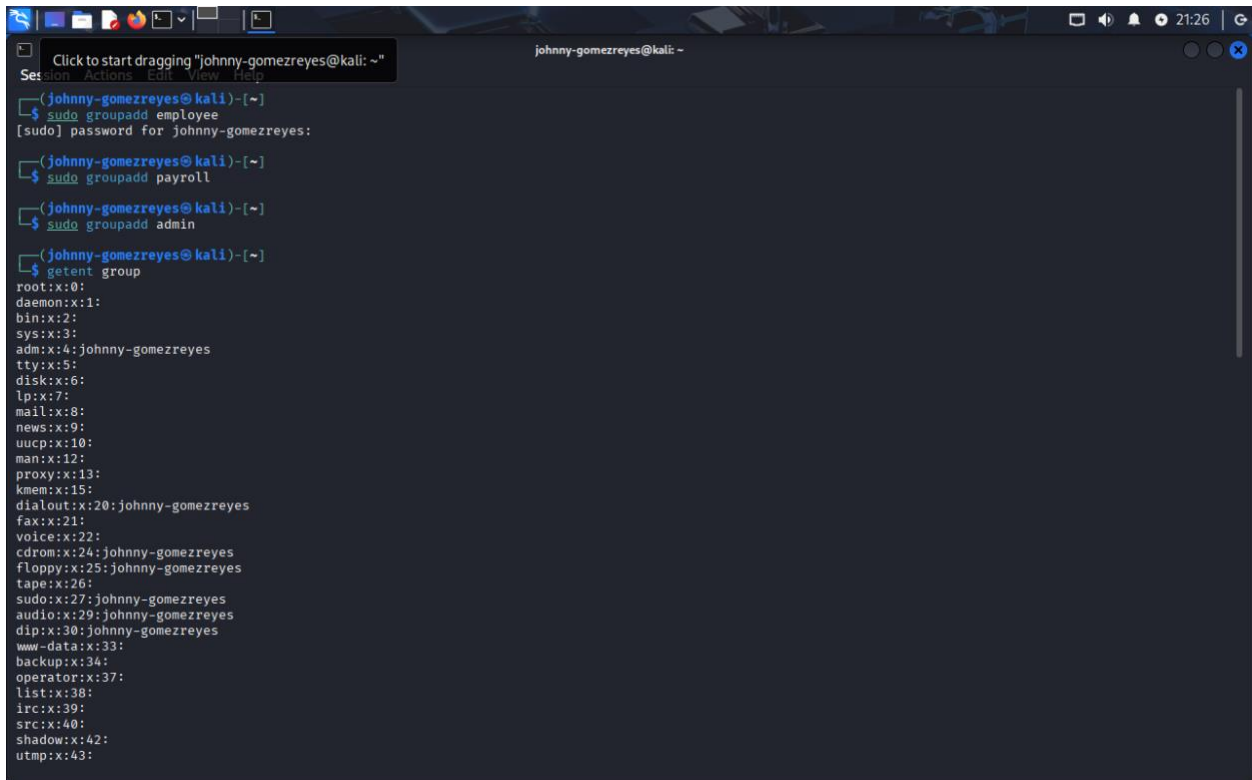


Johnny Gomez-Reyes

CYSE 270: Lab 6 – File Permissions

Task A:

Step 1:



```
johnny-gomezreyes@kali: ~  
└─$ sudo groupadd employee  
[sudo] password for johnny-gomezreyes:  
└─$ sudo groupadd payroll  
└─$ sudo groupadd admin  
└─$ getent group  
root:x:0:  
daemon:x:1:  
bin:x:2:  
sys:x:3:  
adm:x:4: johnny-gomezreyes  
tty:x:5:  
disk:x:6:  
lp:x:7:  
mail:x:8:  
news:x:9:  
uucp:x:10:  
man:x:12:  
proxy:x:13:  
kmem:x:15:  
dialout:x:20: johnny-gomezreyes  
fax:x:21:  
voice:x:22:  
cdrom:x:24: johnny-gomezreyes  
floppy:x:25: johnny-gomezreyes  
tape:x:26:  
sudo:x:27: johnny-gomezreyes  
audio:x:29: johnny-gomezreyes  
dip:x:30: johnny-gomezreyes  
www-data:x:33:  
backup:x:34:  
operator:x:37:  
list:x:38:  
irc:x:39:  
src:x:40:  
shadow:x:42:  
utmp:x:43:
```

Step 2:

```
johnny-gomezreyes@kali: ~  
colorU...  
kali-trusted:x:131:  
johnny-gomezreyes:x:1000:  
kaboxer:x:132:johnny-gomezreyes  
user2:x:1001:  
user3:x:1002:  
user4:x:1003:  
user5:x:1004:  
user6:x:1005:  
user1:x:1006:  
employee:x:1007:  
payroll:x:1008:  
admin:x:1009:  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo useradd -m -d /home/sophia -s /bin/bash -g employee sophia  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo useradd -m -d /home/olivia -s /bin/bash -g payroll olivia  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo useradd -m -d /home/emma -s /bin/bash -g admin emma  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo passwd sophia  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo passwd olivia  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo passwd emma  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$
```

Step 3:

```
johnny-gomezreyes@kali: ~  
Session Actions Edit View Help  
└─$ sudo passwd sophia  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo passwd olivia  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo passwd emma  
New password:  
Retype new password:  
passwd: password updated successfully  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo groupadd jgome027  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo usermod -aG jgome027 sophia  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo usermod -aG jgome027 olivia  
  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo usermod -aG jgome027 emma  
  
(johnny-gomezreyes@kali)-[~]  
└─$ groups sophia  
sophia : employee jgome027  
  
(johnny-gomezreyes@kali)-[~]  
└─$ groups olivia  
olivia : payroll jgome027  
  
(johnny-gomezreyes@kali)-[~]  
└─$ groups emma  
emma : admin jgome027  
  
(johnny-gomezreyes@kali)-[~]  
└─$
```

Steps 4-6:

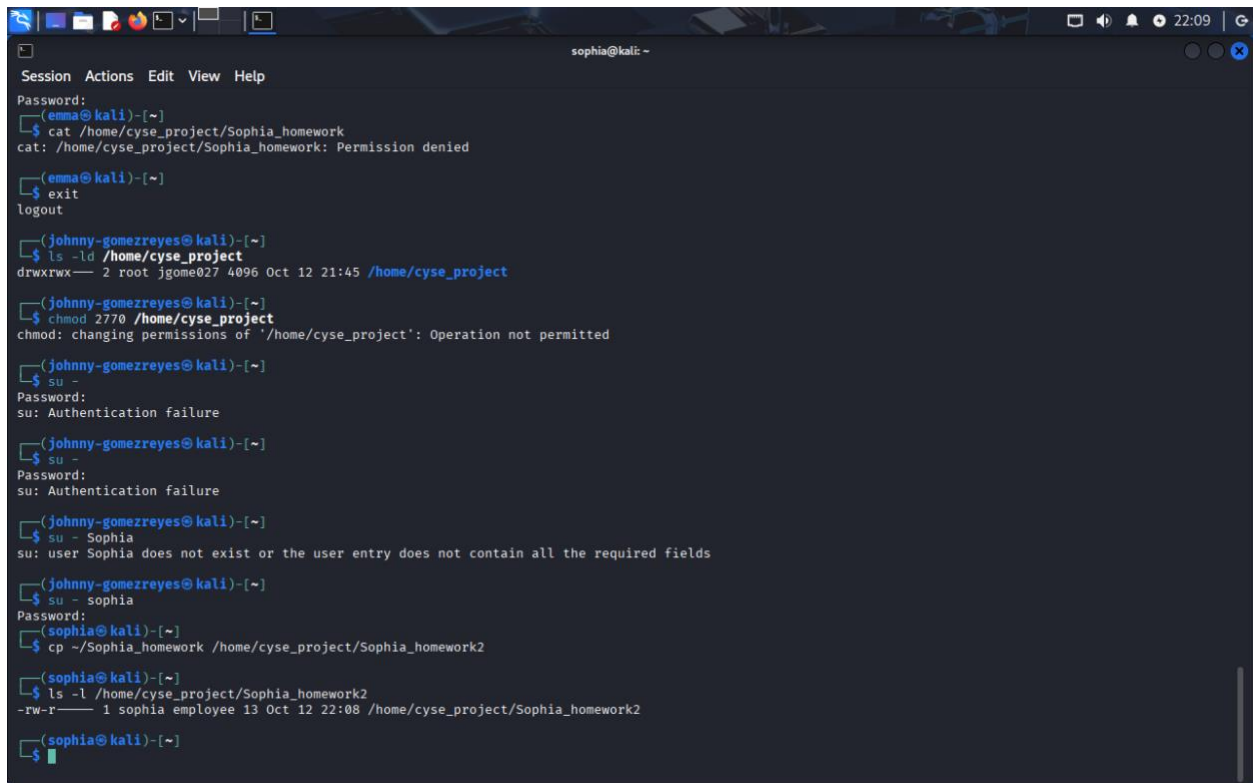
```
sophia@kali: ~  
└─$ sudo usermod -sG jgome027 emma  
(johnny-gomezreyes@kali)-[~]  
└─$ groups sophia  
sophia : employee jgome027  
(johnny-gomezreyes@kali)-[~]  
└─$ groups olivia  
olivia : payroll jgome027  
(johnny-gomezreyes@kali)-[~]  
└─$ groups emma  
emma : admin jgome027  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo mkdir /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo chown :jgome027 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ ls -ld /home/cyse_project  
drwxr-xr-x 2 root jgome027 4096 Oct 12 21:36 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ sudo chmod 770 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ ls -ld /home/cyse_project  
drwxrwx--- 2 root jgome027 4096 Oct 12 21:36 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ su - sophia  
Password:  
(sophia@kali)-[~]  
└─$ umask 027  
(sophia@kali)-[~]  
└─$ umask  
0027  
(sophia@kali)-[~]  
└─$
```

Steps 7-10:

```
johnny-gomezreyes@kali: ~  
└─$ umask 027  
(sophia@kali)-[~]  
└─$ umask  
0027  
(sophia@kali)-[~]  
└─$ echo "Johnny Gomez" > ~/Sophia_homework  
(sophia@kali)-[~]  
└─$ cat ~/Sophia_homework  
Johnny Gomez  
(sophia@kali)-[~]  
└─$ ls -l ~/Sophia_homework  
-rw-r----- 1 sophia employee 13 Oct 12 21:43 /home/sophia/Sophia_homework  
(sophia@kali)-[~]  
└─$ cp ~/Sophia_homework /home/cyse_project/  
(sophia@kali)-[~]  
└─$ ls -l /home/cyse_project/  
total 4  
-rw-r----- 1 sophia employee 13 Oct 12 21:45 Sophia_homework  
(sophia@kali)-[~]  
└─$ exit  
logout  
(johnny-gomezreyes@kali)-[~]  
└─$ su - emma  
Password:  
(emma@kali)-[~]  
└─$ cat /home/cyse_project/Sophia_homework  
cat: /home/cyse_project/Sophia_homework: Permission denied  
(emma@kali)-[~]  
└─$ exit  
logout  
(johnny-gomezreyes@kali)-[~]  
└─$
```

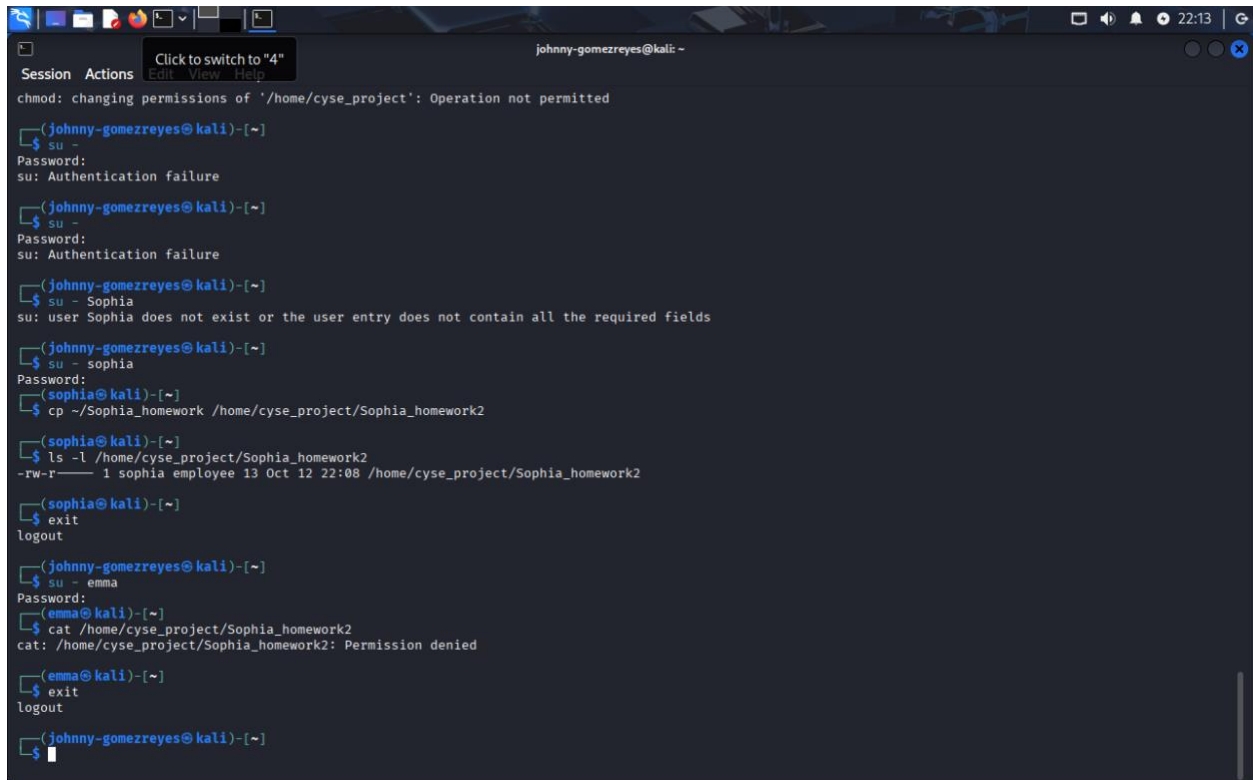
Task B:

Step 1-2:



```
sophia@kali: ~  
Session Actions Edit View Help  
Password:  
(emma@kali)-[~]  
└─$ cat /home/cyse_project/Sophia_homework  
cat: /home/cyse_project/Sophia_homework: Permission denied  
  
(emma@kali)-[~]  
└─$ exit  
logout  
  
(johnny-gomezreyes@kali)-[~]  
└─$ ls -ld /home/cyse_project  
drwxrwx--- 2 root jgome027 4096 Oct 12 21:45 /home/cyse_project  
  
(johnny-gomezreyes@kali)-[~]  
└─$ chmod 2770 /home/cyse_project  
chmod: changing permissions of '/home/cyse_project': Operation not permitted  
  
(johnny-gomezreyes@kali)-[~]  
└─$ su -  
Password:  
su: Authentication failure  
  
(johnny-gomezreyes@kali)-[~]  
└─$ su -  
Password:  
su: Authentication failure  
  
(johnny-gomezreyes@kali)-[~]  
└─$ su - Sophia  
su: user Sophia does not exist or the user entry does not contain all the required fields  
  
(johnny-gomezreyes@kali)-[~]  
└─$ su - sophia  
Password:  
(sophia@kali)-[~]  
└─$ cp ~/Sophia_homework /home/cyse_project/Sophia_homework2  
  
(sophia@kali)-[~]  
└─$ ls -l /home/cyse_project/Sophia_homework2  
-rw-r----- 1 sophia employee 13 Oct 12 22:08 /home/cyse_project/Sophia_homework2  
  
(sophia@kali)-[~]  
└─$
```

Step 3:



```
johnny-gomezreyes@kali: ~
Session Actions Click to switch to "4" Edit View Help
chmod: changing permissions of '/home/cyse_project': Operation not permitted

(johnny-gomezreyes@kali)-[~]
└─$ su -
Password:
su: Authentication failure

(johnny-gomezreyes@kali)-[~]
└─$ su -
Password:
su: Authentication failure

(johnny-gomezreyes@kali)-[~]
└─$ su - sophia
su: user Sophia does not exist or the user entry does not contain all the required fields

(johnny-gomezreyes@kali)-[~]
└─$ su - sophia
Password:
(sophia@kali)-[~]
└─$ cp ~/Sophia_homework /home/cyse_project/Sophia_homework2

(sophia@kali)-[~]
└─$ ls -l /home/cyse_project/Sophia_homework2
-rw-r----- 1 sophia employee 13 Oct 12 22:08 /home/cyse_project/Sophia_homework2

(sophia@kali)-[~]
└─$ exit
logout

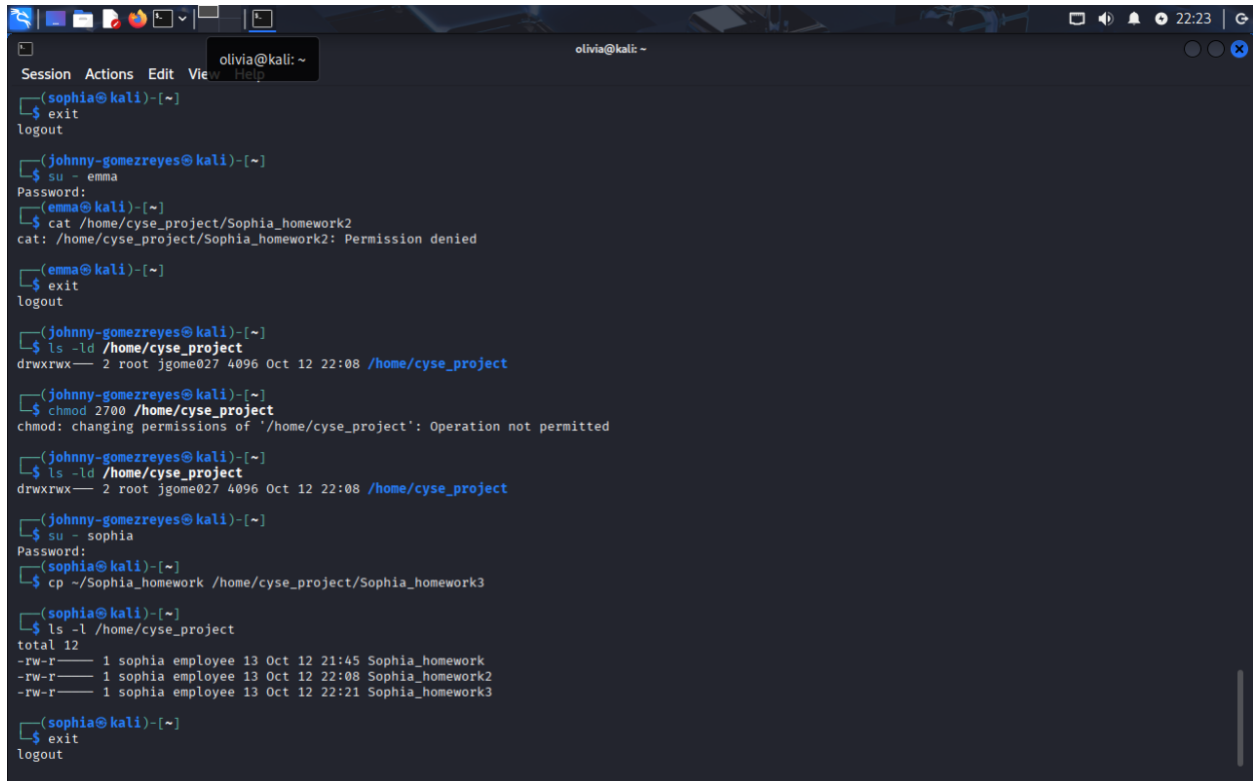
(johnny-gomezreyes@kali)-[~]
└─$ su - emma
Password:
(emma@kali)-[~]
└─$ cat /home/cyse_project/Sophia_homework2
cat: /home/cyse_project/Sophia_homework2: Permission denied

(emma@kali)-[~]
└─$ exit
logout

(johnny-gomezreyes@kali)-[~]
└─$
```

Task C:

Step 1-2:



```
olivia@kali: ~  
Session Actions Edit View Help  
(sophia@kali)-[~]  
└─$ exit  
logout  
(johnny-gomezreyes@kali)-[~]  
└─$ su - emma  
Password:  
(emma@kali)-[~]  
└─$ cat /home/cyse_project/Sophia_homework2  
cat: /home/cyse_project/Sophia_homework2: Permission denied  
(emma@kali)-[~]  
└─$ exit  
logout  
(johnny-gomezreyes@kali)-[~]  
└─$ ls -ld /home/cyse_project  
drwxrwx--- 2 root jgome027 4096 Oct 12 22:08 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ chmod 2700 /home/cyse_project  
chmod: changing permissions of '/home/cyse_project': Operation not permitted  
(johnny-gomezreyes@kali)-[~]  
└─$ ls -ld /home/cyse_project  
drwxrwx--- 2 root jgome027 4096 Oct 12 22:08 /home/cyse_project  
(johnny-gomezreyes@kali)-[~]  
└─$ su - sophia  
Password:  
(sophia@kali)-[~]  
└─$ cp ~/Sophia_homework /home/cyse_project/Sophia_homework3  
(sophia@kali)-[~]  
└─$ ls -l /home/cyse_project  
total 12  
-rw-r----- 1 sophia employee 13 Oct 12 21:45 Sophia_homework  
-rw-r----- 1 sophia employee 13 Oct 12 22:08 Sophia_homework2  
-rw-r----- 1 sophia employee 13 Oct 12 22:21 Sophia_homework3  
(sophia@kali)-[~]  
└─$ exit  
logout
```

Step 3:

```
johnny-gomezreyes@kali: ~  
Session Actions Edit View Help  
johnny-gomezreyes@kali ~  
└─$ chmod 2700 /home/cyse_project  
chmod: changing permissions of '/home/cyse_project': Operation not permitted  
johnny-gomezreyes@kali ~  
└─$ ls -ld /home/cyse_project  
drwxrwx--- 2 root jgame027 4096 Oct 12 22:08 /home/cyse_project  
johnny-gomezreyes@kali ~  
└─$ su - sophia  
Password:  
sophia@kali ~  
└─$ cp ~/Sophia_homework /home/cyse_project/Sophia_homework3  
sophia@kali ~  
└─$ ls -l /home/cyse_project  
total 12  
-rw-r----- 1 sophia employee 13 Oct 12 21:45 Sophia_homework  
-rw-r----- 1 sophia employee 13 Oct 12 22:08 Sophia_homework2  
-rw-r----- 1 sophia employee 13 Oct 12 22:21 Sophia_homework3  
sophia@kali ~  
└─$ exit  
logout  
johnny-gomezreyes@kali ~  
└─$ su - olivia  
Password:  
olivia@kali ~  
└─$ cat /home/cyse_project/Sophia_homework3  
-bash: cat/home/cyse_project/Sophia_homework3: No such file or directory  
olivia@kali ~  
└─$ cat /home/cyse_project/Sophia_homework3  
cat: /home/cyse_project/Sophia_homework3: Permission denied  
olivia@kali ~  
└─$ exit  
logout  
johnny-gomezreyes@kali ~  
└─$
```