

Part A

Step 1

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help

(student@kali.example.com)-[~]
$ grep student /etc/passwd
student:x:1000:6002:Cyber Range Student:/home/student:/bin/bash
```

Step 2

```
(student@kali.example.com)-[~]
$ sudo grep student /etc/shadow
student:$y$j9T$ctCcSCHwcZwfLvaFPs3S1/$vW00xcFYrhUUit00UVvAoBAiAykQHE4WZ7R03tza2H
6:20334:0:99999:7:::
```

Steps 3 & 4

```
(student@kali.example.com)-[~]
$ sudo useradd -m Bobby

(student@kali.example.com)-[~]
$ sudo passwd Bobby
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
```

Step 5

```
(student@kali.example.com)-[~]
$ grep Bobby /etc/passwd
Bobby:x:1001:6004::/home/Bobby:/bin/sh

(student@kali.example.com)-[~]
$ sudo grep Bobby /etc/passwd
Bobby:x:1001:6004::/home/Bobby:/bin/sh

(student@kali.example.com)-[~]
$ sudo usermod -s /bin/bash Bobby

(student@kali.example.com)-[~]
$ grep Bobby /etc/passwd
Bobby:x:1001:6004::/home/Bobby:/bin/bash
```

Steps 6 & 7

```
(student@kali.example.com)-[~]  
$ sudo grep Bobby /etc/shadow  
Bobby:!:20349:0:99999:7:::  
  
(student@kali.example.com)-[~]  
$ sudo usermod -aG sudo Bobby  
  
(student@kali.example.com)-[~]  
$ id Bobby  
uid=1001(Bobby) gid=6004(Bobby) groups=6004(Bobby),27(sudo)
```

Step 8

```
(student@kali.example.com)-[~]  
$ su Bobby  
Password:  
  
(student@kali.example.com)-[~]  
$ whoami  
student
```

Part B

Step 1

```
(student@kali.example.com)-[~]  
$ grep student /etc/passwd  
student:x:1000:6002:Cyber Range Student:/home/student:/bin/bash  
  
(student@kali.example.com)-[~]  
$ echo $SHELL  
/bin/bash
```

Step 2

```
(student@kali.example.com)-[~]  
$ id student  
uid=1000(student) gid=6002(designers) groups=6002(designers),4(adm),6003(testers)  
)
```

Step 3

```
(student@kali.example.com)-[~]  
$ groups  
designers adm testers
```

Step 4

```
(student@kali.example.com)-[~]  
$ ls -l newfile  
-rw-r--r-- 1 root newtest 0 Sep 18 17:04 newfile
```

Step 5

```
(student@kali.example.com)-[~]  
$ sudo groupmod -n newtest test  
  
(student@kali.example.com)-[~]  
$ id  
uid=1000(student) gid=6002(designers) groups=6002(designers),4(adm),6003(testers)
```

Step 6

```
(student@kali.example.com)-[~]  
$ sudo groupadd -g 602 test  
  
(student@kali.example.com)-[~]  
$ grep test /etc/group  
testers:x:6003:student  
test:x:602:
```

Steps 7 & 8

```
(student@kali.example.com)-[~]  
$ sudo groupmod -n newtest test  
  
(student@kali.example.com)-[~]  
$ id  
uid=1000(student) gid=6002(designers) groups=6002(designers),4(adm),6003(testers)
```

Step 9

```
(student@kali.example.com)-[~]  
$ sudo touch newfile  
  
(student@kali.example.com)-[~]  
$ sudo chgrp newtest newfile
```

Step 10

```
(student@kali.example.com)-[~]  
$ ls -l newfile  
-rw-r--r-- 1 root newtest 0 Sep 18 17:04 newfile
```

Step 11- The group permission was moved to the 603 group so the permission is not useful anymore

```
(student@kali.example.com)-[~]  
$ sudo groupdel newtest  
  
(student@kali.example.com)-[~]  
$ sudo ls -l  
total 88  
-rw-rw-r-- 1 student designers 21 Sep 9 15:22 Demo.txt  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Desktop  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Documents  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Downloads  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Music  
-rw-rw-r-- 1 student designers 41 Sep 9 15:06 New.txt.gz  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Pictures  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Public  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Templates  
drwxr-xr-x 2 student designers 4096 Sep 3 05:23 Videos  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 apple.txt  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 apricot.txt  
-rw-rw-r-- 1 student designers 10240 Sep 9 15:27 archive.tar  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 banana.txt  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 blueberry.txt  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 cherry.txt  
-rw-r--r-- 1 student designers 5460 Sep 12 16:17 copyright_cyse270  
-rw-rw-r-- 1 student designers 0 Sep 4 15:11 cranberry.txt
```

Step 12

```
(student@kali.example.com)-[~]  
$ sudo userdel -r Bobby  
userdel: Bobby mail spool (/var/mail/Bobby) not found
```