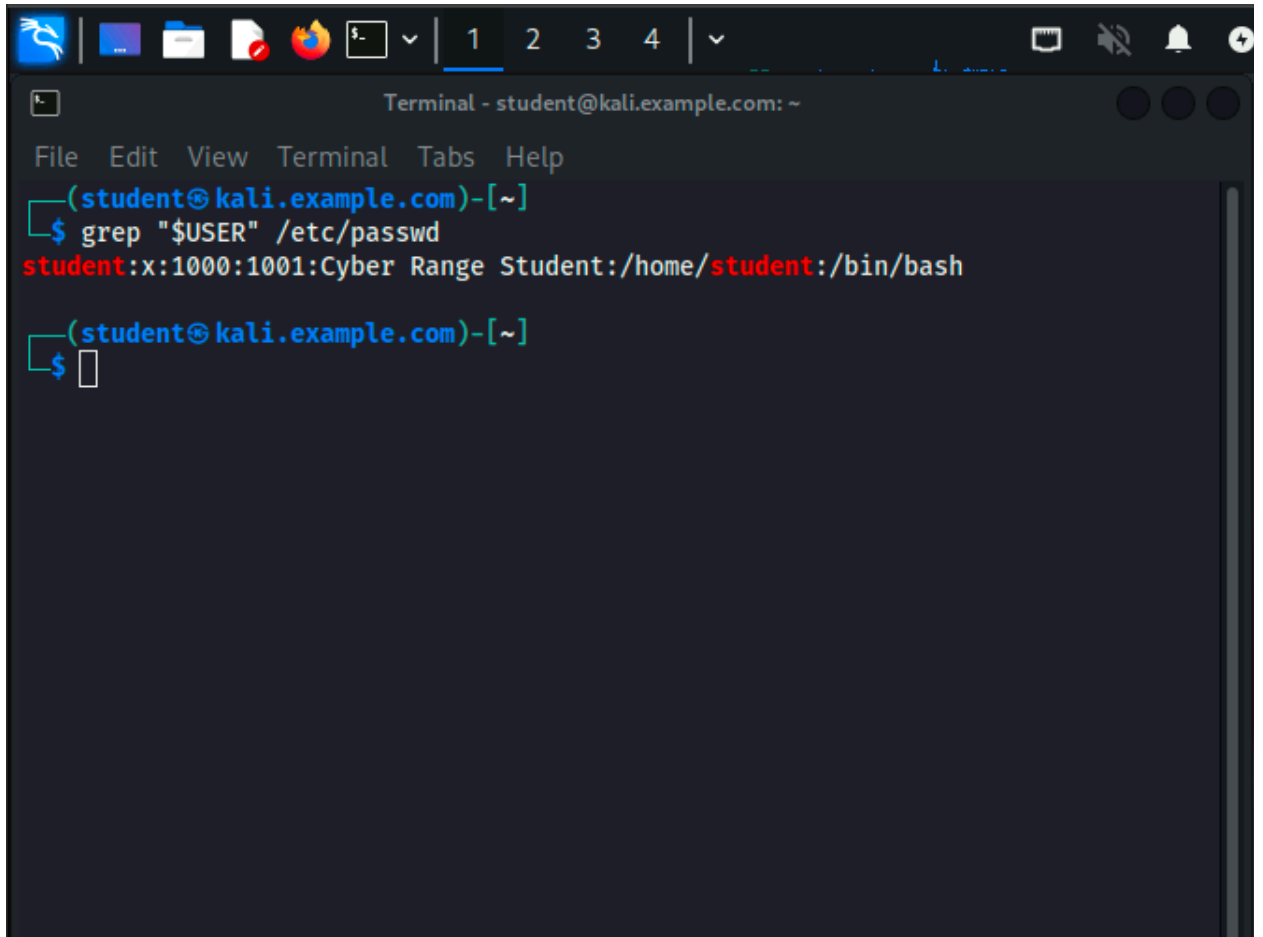


Task A

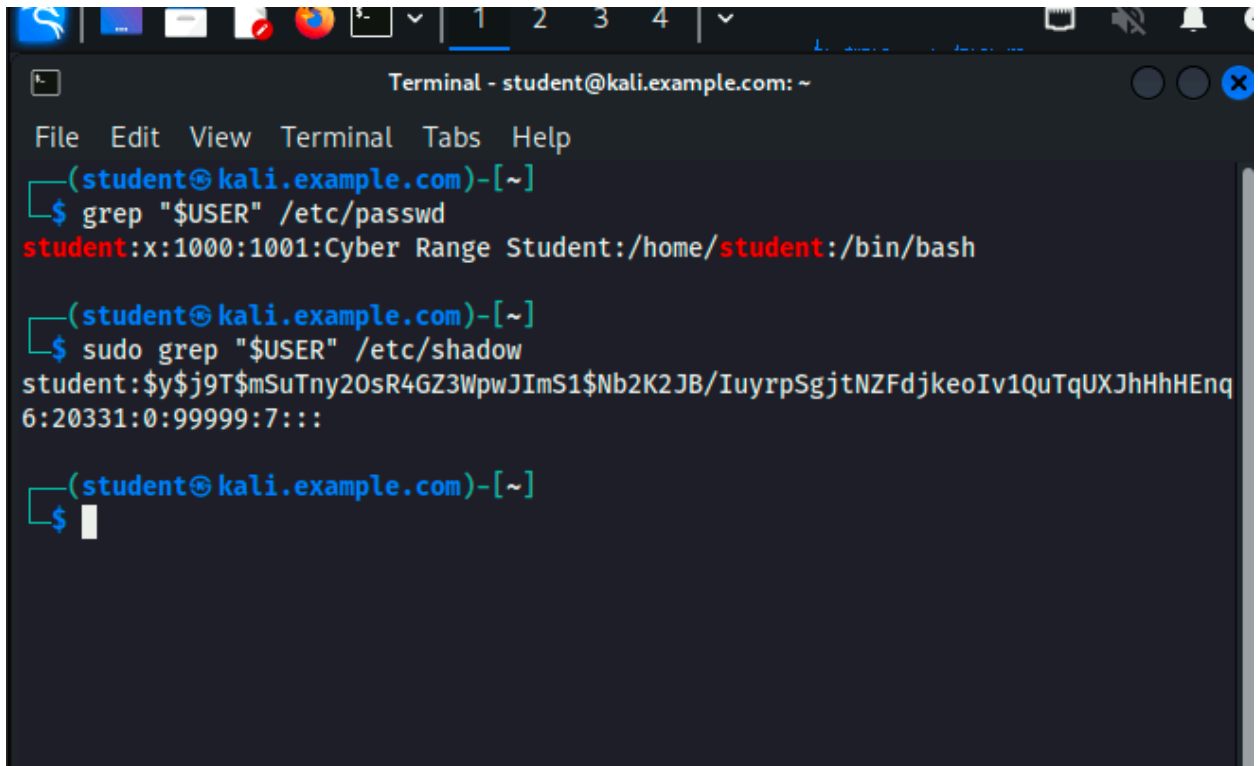
1. .83



```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ grep "$USER" /etc/passwd
student:x:1000:1001:Cyber Range Student:/home/student:/bin/bash

(student@kali.example.com)-[~]
$
```

2. .84

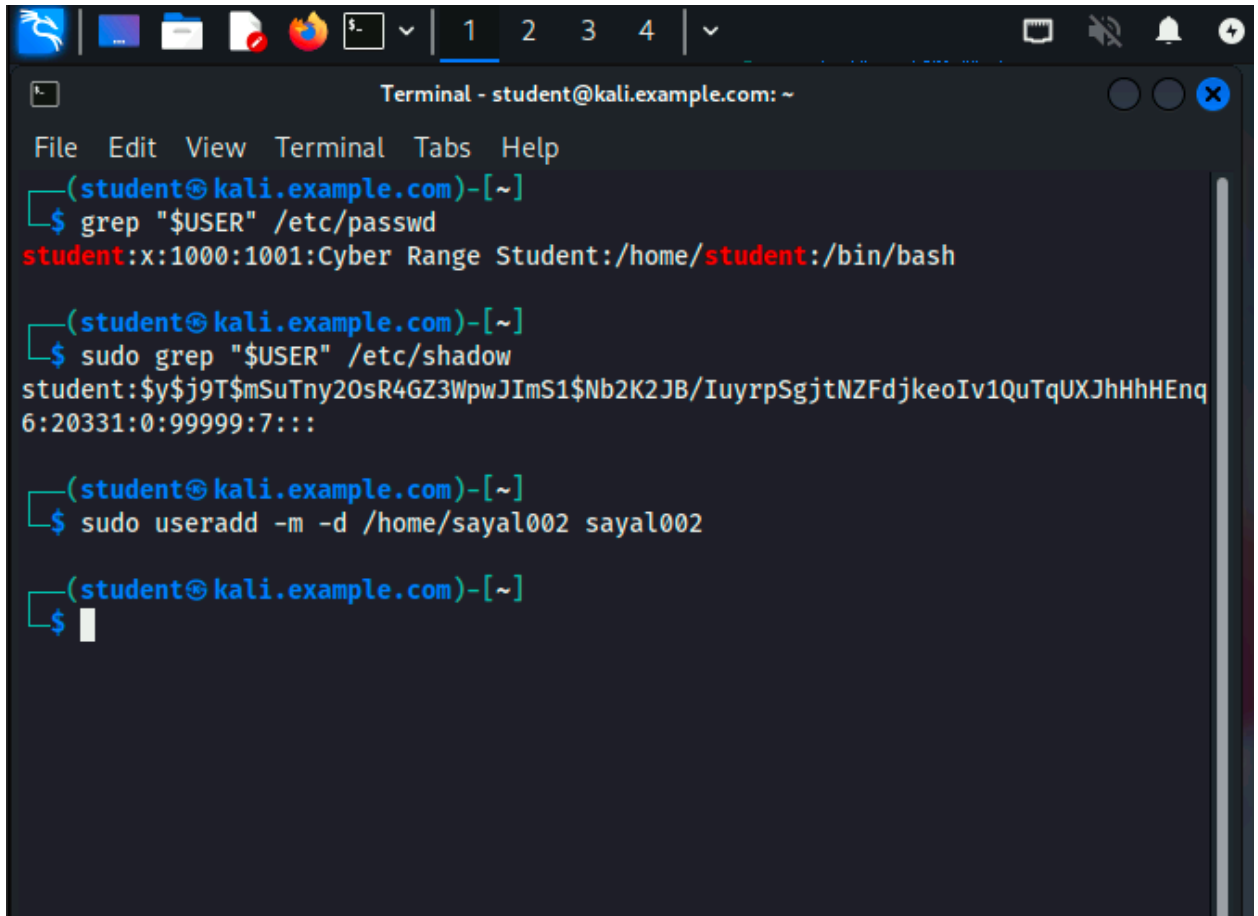


```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ grep "$USER" /etc/passwd
student:x:1000:1001:Cyber Range Student:/home/student:/bin/bash

(student@kali.example.com)-[~]
$ sudo grep "$USER" /etc/shadow
student:$y$j9T$mSuTny20sR4GZ3WpwJImS1$Nb2K2JB/IuyrpSgjtNZFdjkeoIv1QuTqUXJhHhHEnq
6:20331:0:99999:7:::

(student@kali.example.com)-[~]
$
```

3. .85



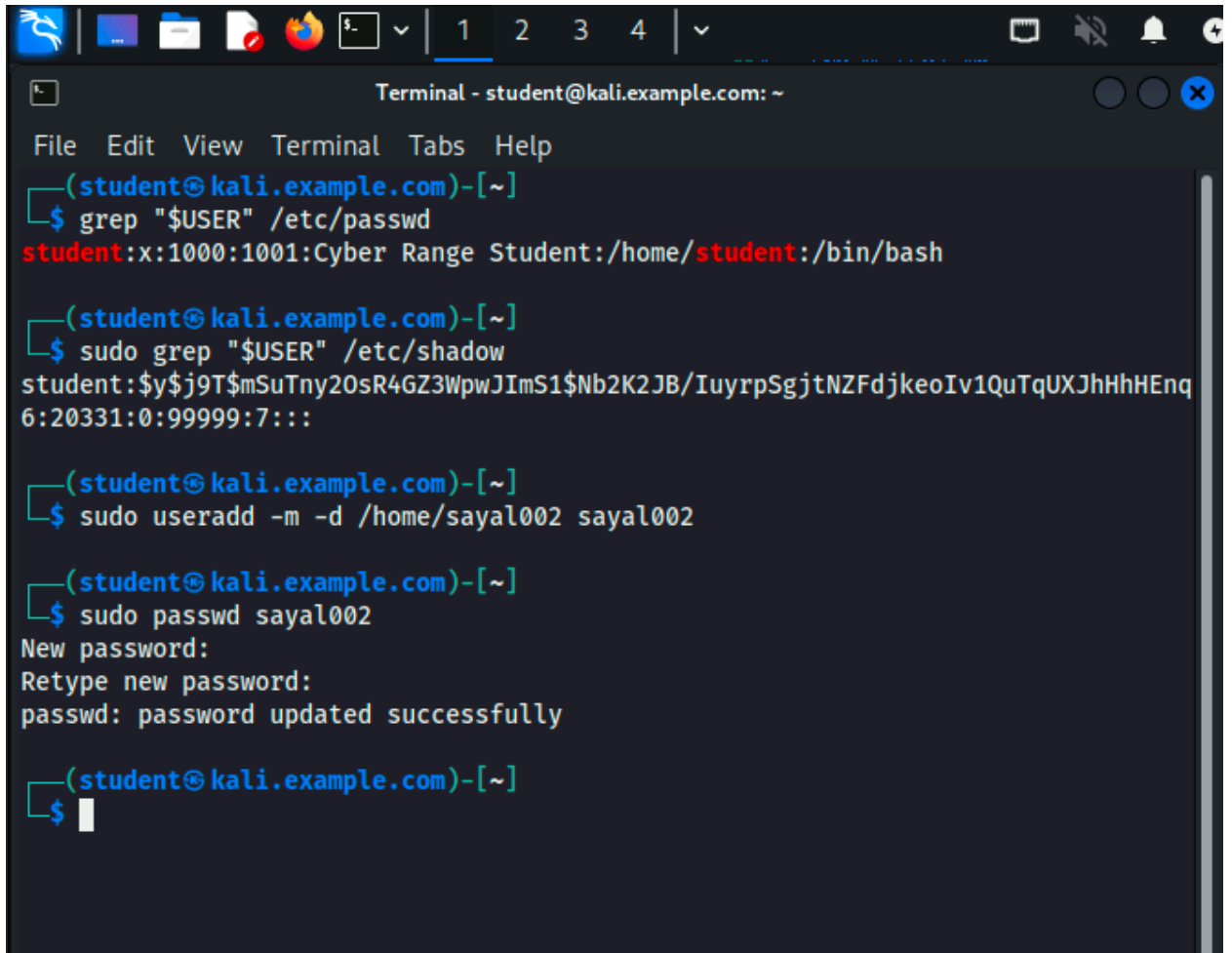
```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ grep "$USER" /etc/passwd
student:x:1000:1001:Cyber Range Student:/home/student:/bin/bash

(student@kali.example.com)-[~]
$ sudo grep "$USER" /etc/shadow
student:$y$j9T$mSuTny20sR4GZ3WpwJImS1$Nb2K2JB/IuyrpSgjtNZFdjkeoIv1QuTqUXJhHhHEng
6:20331:0:99999:7:::

(student@kali.example.com)-[~]
$ sudo useradd -m -d /home/sayal002 sayal002

(student@kali.example.com)-[~]
$
```

4. .86



```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ grep "$USER" /etc/passwd
student:x:1000:1001:Cyber Range Student:/home/student:/bin/bash

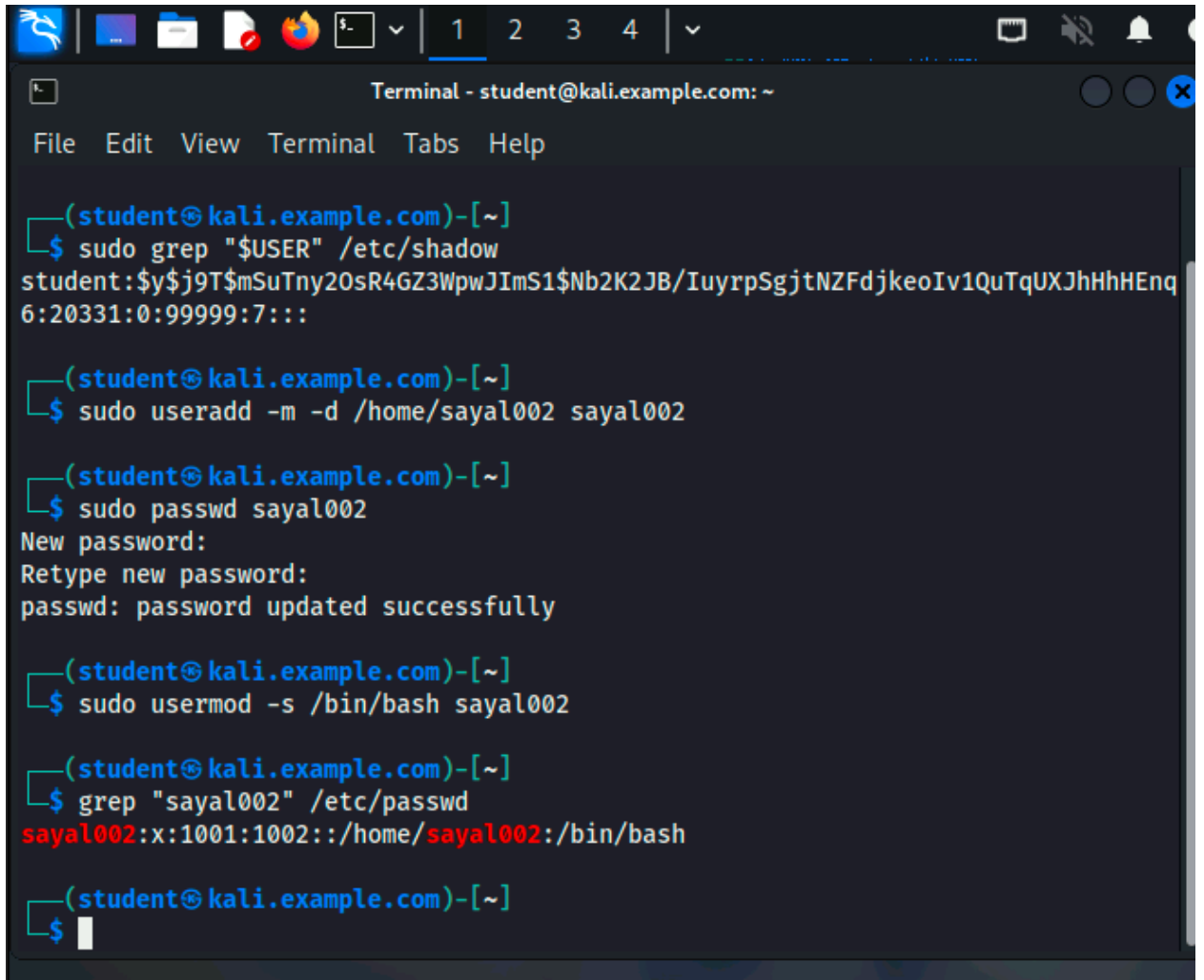
(student@kali.example.com)-[~]
$ sudo grep "$USER" /etc/shadow
student:$y$j9T$mSuTny20sR4GZ3WpwJImS1$Nb2K2JB/IuyrpSgjtNZFdjkeoIv1QuTqUXJhHhHENq
6:20331:0:99999:7:::

(student@kali.example.com)-[~]
$ sudo useradd -m -d /home/sayal002 sayal002

(student@kali.example.com)-[~]
$ sudo passwd sayal002
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$
```

5. .87



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

(student@kali.example.com)-[~]
$ sudo grep "$USER" /etc/shadow
student:$y$j9T$mSuTny20sR4GZ3WpwJImS1$Nb2K2JB/IuyrpSgjtNZFdjkeoIv1QuTqUXJhHhHenq
6:20331:0:99999:7:::

(student@kali.example.com)-[~]
$ sudo useradd -m -d /home/sayal002 sayal002

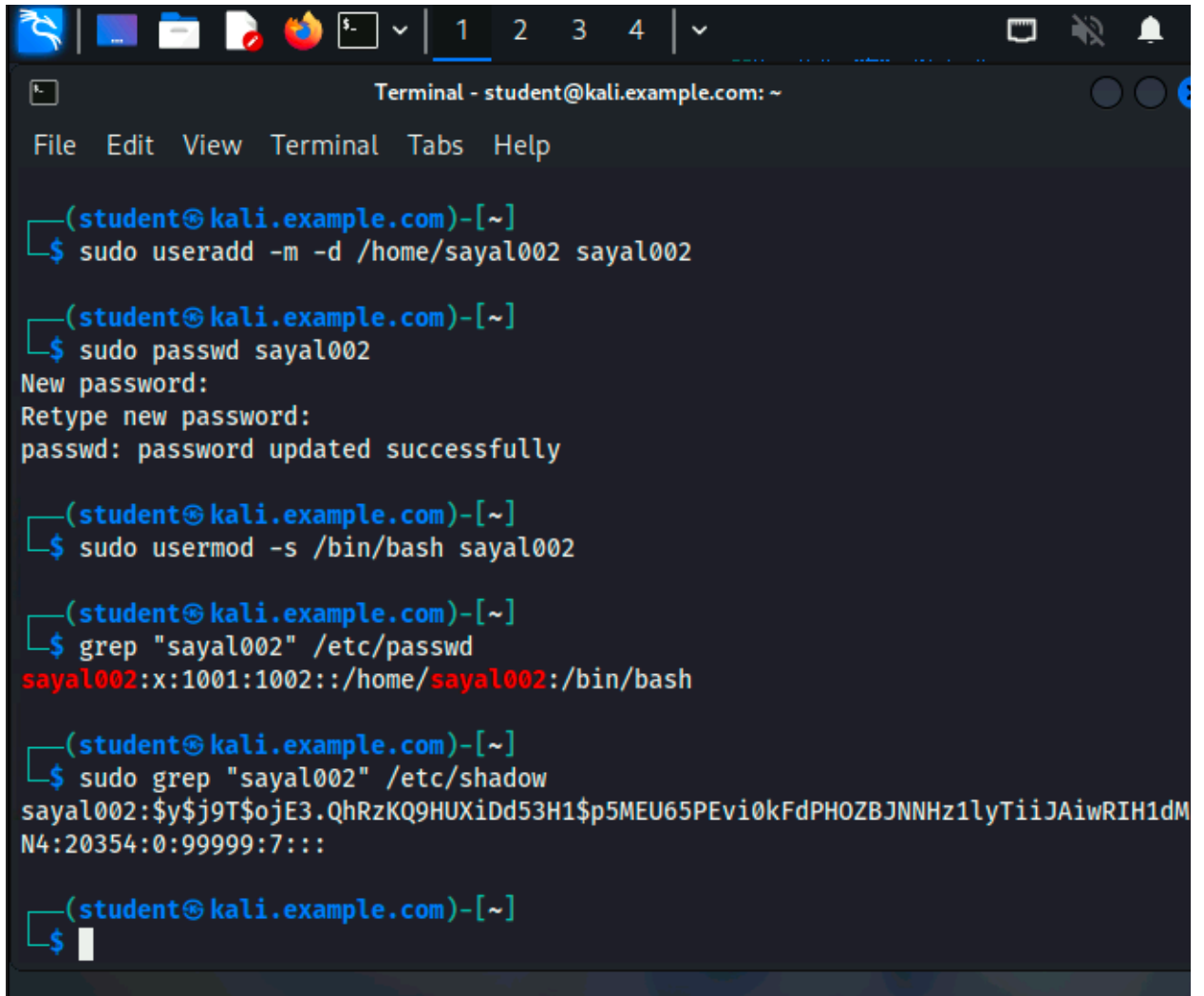
(student@kali.example.com)-[~]
$ sudo passwd sayal002
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo usermod -s /bin/bash sayal002

(student@kali.example.com)-[~]
$ grep "sayal002" /etc/passwd
sayal002:x:1001:1002::/home/sayal002:/bin/bash

(student@kali.example.com)-[~]
$
```

6. .88



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

(student@kali.example.com)-[~]
$ sudo useradd -m -d /home/sayal002 sayal002

(student@kali.example.com)-[~]
$ sudo passwd sayal002
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo usermod -s /bin/bash sayal002

(student@kali.example.com)-[~]
$ grep "sayal002" /etc/passwd
sayal002:x:1001:1002::/home/sayal002:/bin/bash

(student@kali.example.com)-[~]
$ sudo grep "sayal002" /etc/shadow
sayal002:$y$j9T$oje3.QhRzKQ9HUXiDd53H1$p5MEU65PEvi0kFdPHOZBJNNHz1lyTiiJAiwRIH1dM
N4:20354:0:99999:7:::

(student@kali.example.com)-[~]
$
```

7. .89

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

(student@kali.example.com)-[~]
$ sudo passwd sayal002
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo usermod -s /bin/bash sayal002

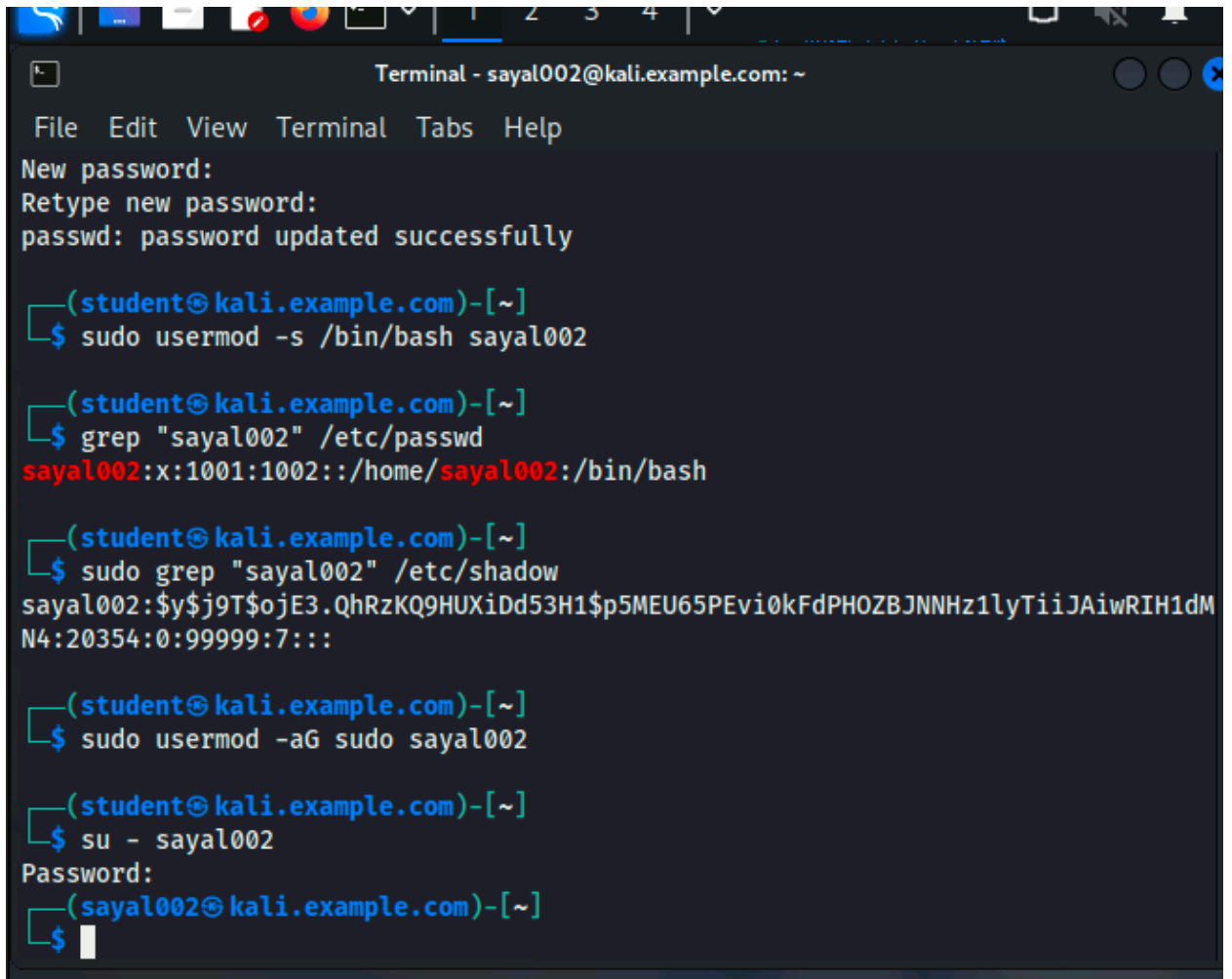
(student@kali.example.com)-[~]
$ grep "sayal002" /etc/passwd
sayal002:x:1001:1002::/home/sayal002:/bin/bash

(student@kali.example.com)-[~]
$ sudo grep "sayal002" /etc/shadow
sayal002:$y$j9T$ojE3.QhRzKQ9HUXiDd53H1$p5MEU65PEvi0kFdPHOZBJNNHz1lyTiiJAiwRIH1d
N4:20354:0:99999:7:::

(student@kali.example.com)-[~]
$ sudo usermod -aG sudo sayal002

(student@kali.example.com)-[~]
$
```

8. .90



```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
└─$ sudo usermod -s /bin/bash sayal002

(student@kali.example.com)-[~]
└─$ grep "sayal002" /etc/passwd
sayal002:x:1001:1002::/home/sayal002:/bin/bash

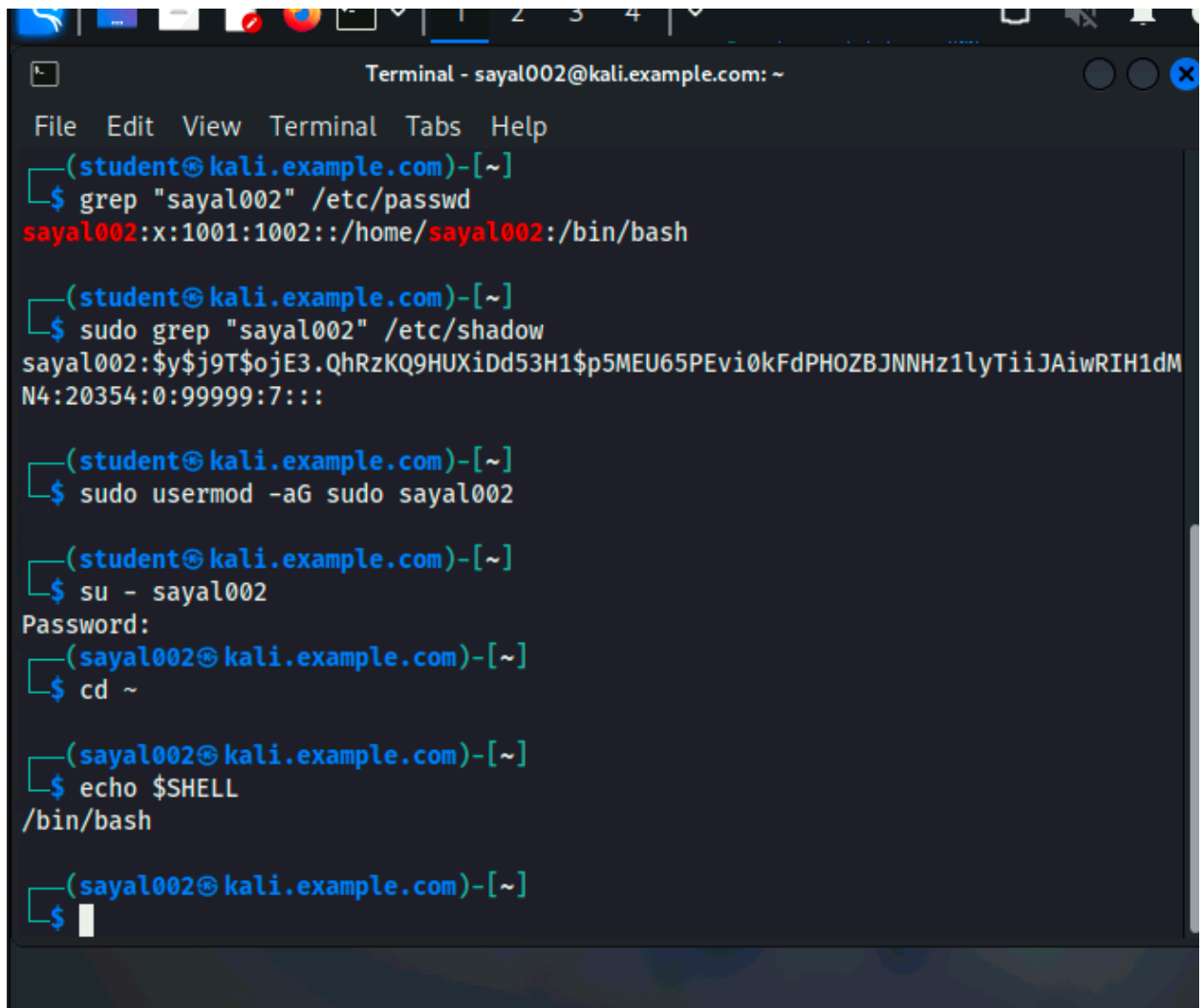
(student@kali.example.com)-[~]
└─$ sudo grep "sayal002" /etc/shadow
sayal002:$y$j9T$ojE3.QhRzKQ9HUXiDd53H1$p5MEU65PEvi0kFdPHOZBJNNHz1lyTiiJaiwRIH1dM
N4:20354:0:99999:7:::

(student@kali.example.com)-[~]
└─$ sudo usermod -aG sudo sayal002

(student@kali.example.com)-[~]
└─$ su - sayal002
Password:
(sayal002@kali.example.com)-[~]
└─$
```

Task B

1. .91



```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ grep "sayal002" /etc/passwd
sayal002:x:1001:1002::/home/sayal002:/bin/bash

(student@kali.example.com)-[~]
$ sudo grep "sayal002" /etc/shadow
sayal002:$y$j9T$ojE3.QhRzKQ9HUXiDd53H1$p5MEU65PEvi0kFdPHOZBJNNHz1lyTiiJAiwRIH1dM
N4:20354:0:99999:7:::

(student@kali.example.com)-[~]
$ sudo usermod -aG sudo sayal002

(student@kali.example.com)-[~]
$ su - sayal002
Password:
(sayal002@kali.example.com)-[~]
$ cd ~

(sayal002@kali.example.com)-[~]
$ echo $SHELL
/bin/bash

(sayal002@kali.example.com)-[~]
$
```

2. .92

```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
└─$ sudo grep "sayal002" /etc/shadow
sayal002:$y$j9T$ojE3.QhRzKQ9HUXiDd53H1$p5MEU65PEvi0kFdPHOZBJNNHz1lyTiiJAiwRIH1dM
N4:20354:0:99999:7:::

(student@kali.example.com)-[~]
└─$ sudo usermod -aG sudo sayal002

(student@kali.example.com)-[~]
└─$ su - sayal002
Password:
(sayal002@kali.example.com)-[~]
└─$ cd ~

(sayal002@kali.example.com)-[~]
└─$ echo $SHELL
/bin/bash

(sayal002@kali.example.com)-[~]
└─$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
└─$
```

3. .93

```
File Edit View Terminal Tabs Help

(student@kali.example.com)-[~]
└─$ sudo usermod -aG sudo sayal002

(student@kali.example.com)-[~]
└─$ su - sayal002
Password:
(sayal002@kali.example.com)-[~]
└─$ cd ~

(sayal002@kali.example.com)-[~]
└─$ echo $SHELL
/bin/bash

(sayal002@kali.example.com)-[~]
└─$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
└─$ groups root
root : root

(sayal002@kali.example.com)-[~]
└─$ █
```

4. .95

```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
└─$ cd ~

(sayal002@kali.example.com)-[~]
└─$ echo $SHELL
/bin/bash

(sayal002@kali.example.com)-[~]
└─$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
└─$ groups root
root : root

(sayal002@kali.example.com)-[~]
└─$ sudo groupadd -g 01252984 test
[sudo] password for sayal002:

(sayal002@kali.example.com)-[~]
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group

(sayal002@kali.example.com)-[~]
└─$
```

5. .94

```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ su - sayal002
Password:
(sayal002@kali.example.com)-[~]
$ cd ~

(sayal002@kali.example.com)-[~]
$ echo $SHELL
/bin/bash

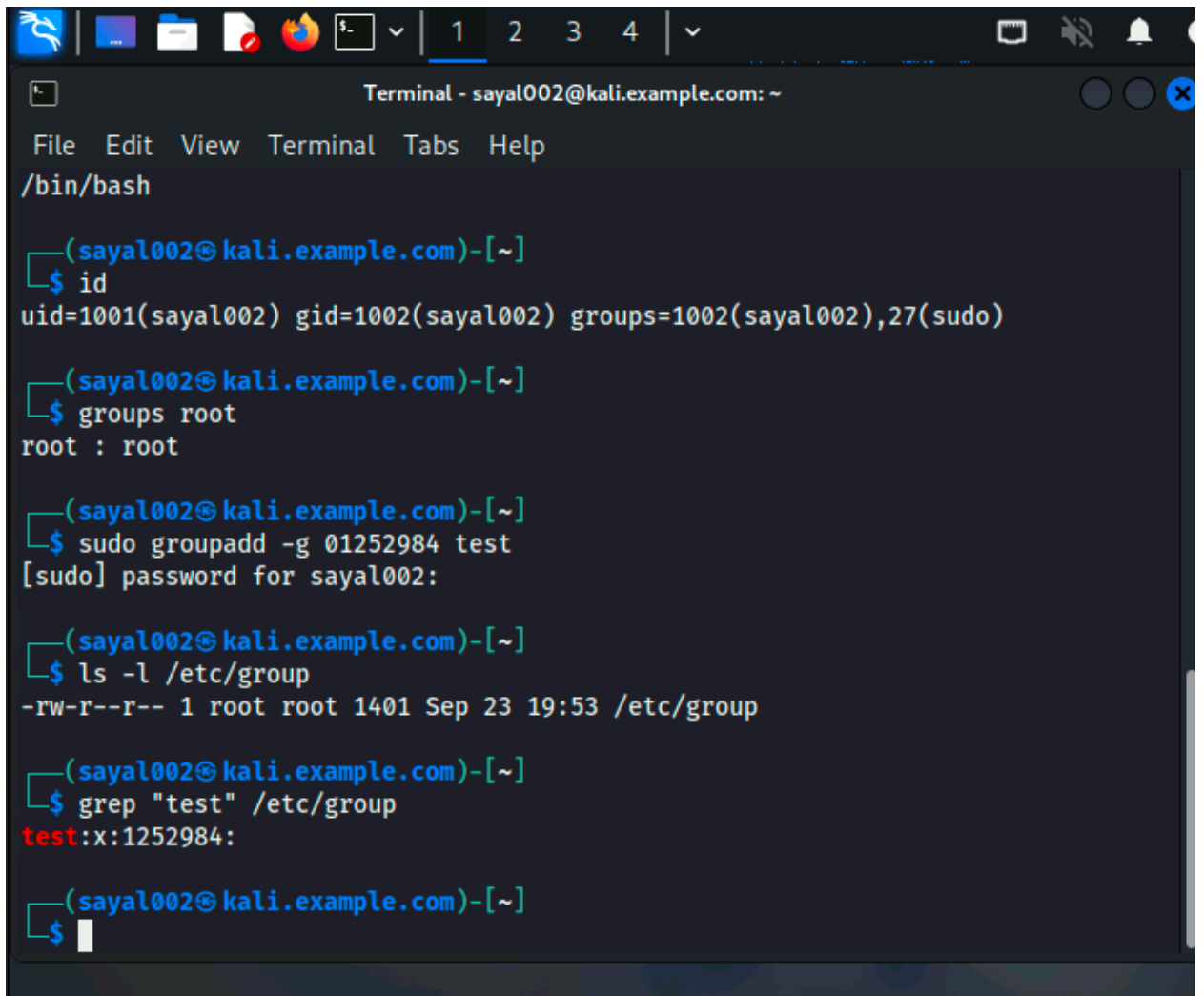
(sayal002@kali.example.com)-[~]
$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
$ groups root
root : root

(sayal002@kali.example.com)-[~]
$ sudo groupadd -g 01252984 test
[sudo] password for sayal002:

(sayal002@kali.example.com)-[~]
$
```

6. .96



```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
/bin/bash

(sayal002@kali.example.com)-[~]
$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
$ groups root
root : root

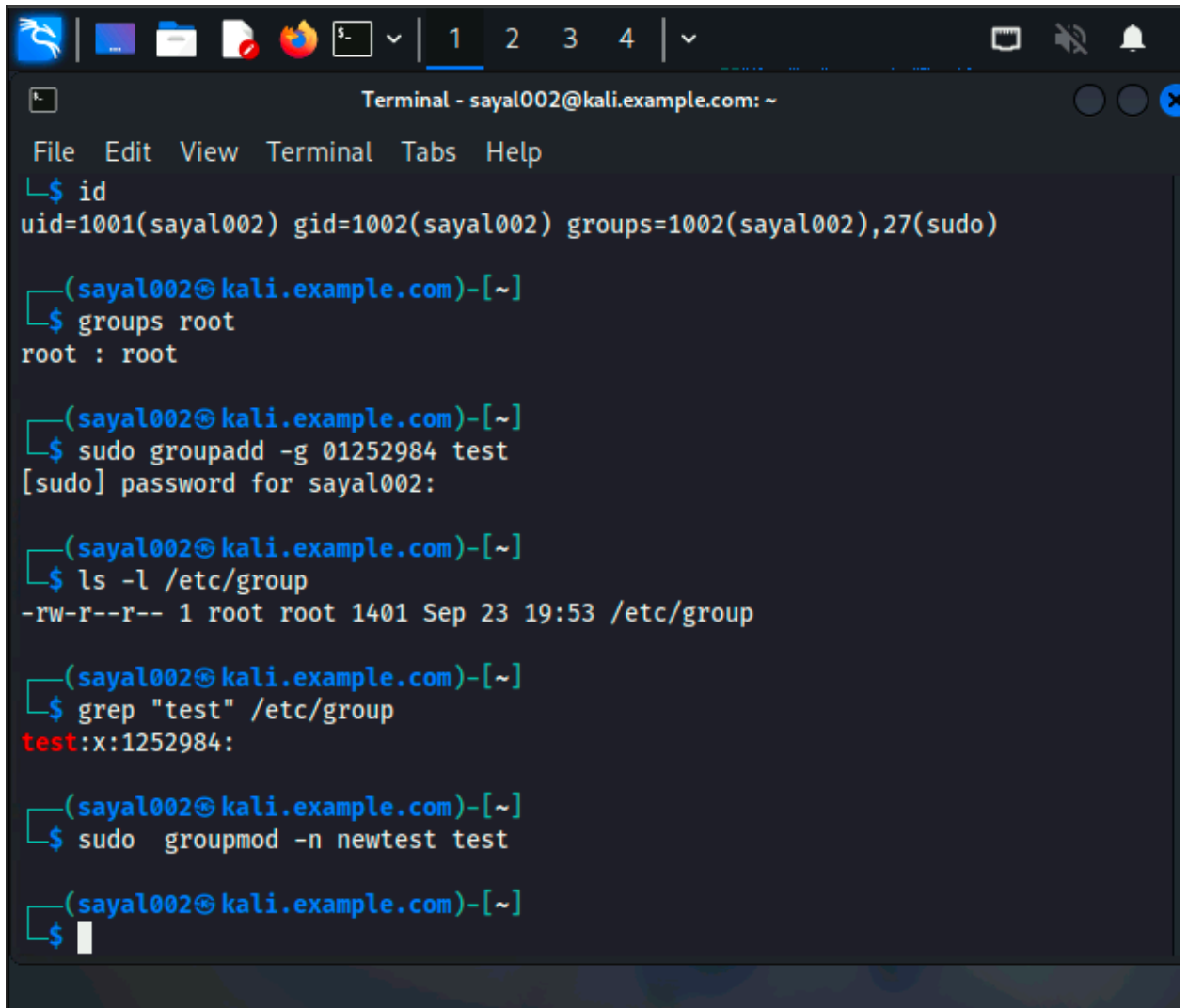
(sayal002@kali.example.com)-[~]
$ sudo groupadd -g 01252984 test
[sudo] password for sayal002:

(sayal002@kali.example.com)-[~]
$ ls -l /etc/group
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group

(sayal002@kali.example.com)-[~]
$ grep "test" /etc/group
test:x:1252984:

(sayal002@kali.example.com)-[~]
$
```

7. .97



```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
└─$ id
uid=1001(sayal002) gid=1002(sayal002) groups=1002(sayal002),27(sudo)

(sayal002@kali.example.com)-[~]
└─$ groups root
root : root

(sayal002@kali.example.com)-[~]
└─$ sudo groupadd -g 01252984 test
[sudo] password for sayal002:

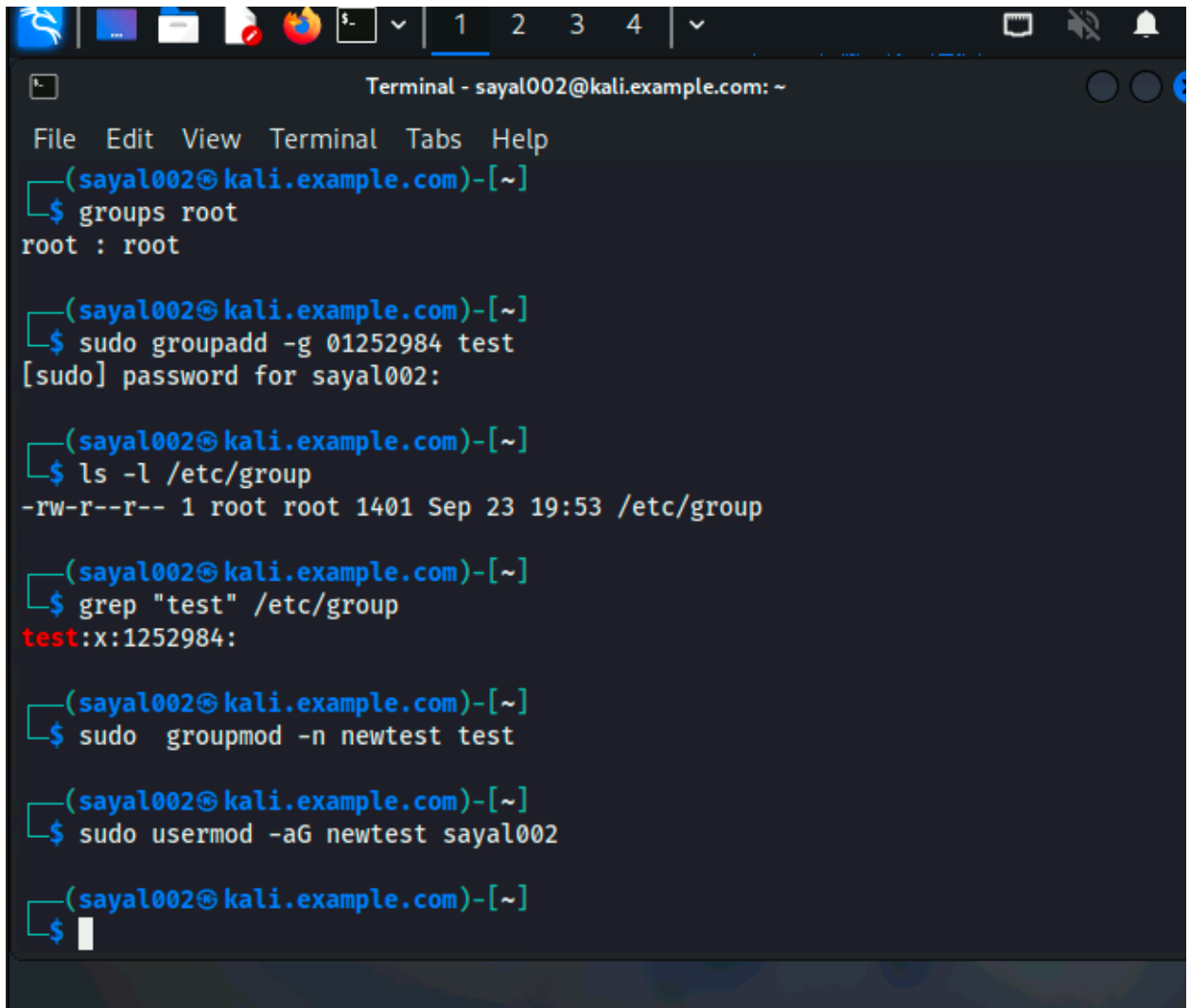
(sayal002@kali.example.com)-[~]
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group

(sayal002@kali.example.com)-[~]
└─$ grep "test" /etc/group
test:x:1252984:

(sayal002@kali.example.com)-[~]
└─$ sudo groupmod -n newtest test

(sayal002@kali.example.com)-[~]
└─$
```

8. .98



```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
(sayal002@kali.example.com)-[~]
$ groups root
root : root

(sayal002@kali.example.com)-[~]
$ sudo groupadd -g 01252984 test
[sudo] password for sayal002:

(sayal002@kali.example.com)-[~]
$ ls -l /etc/group
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group

(sayal002@kali.example.com)-[~]
$ grep "test" /etc/group
test:x:1252984:

(sayal002@kali.example.com)-[~]
$ sudo groupmod -n newtest test

(sayal002@kali.example.com)-[~]
$ sudo usermod -aG newtest sayal002

(sayal002@kali.example.com)-[~]
$
```

9. .99

```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
[sudo] password for sayal002:

(sayal002@kali.example.com)-[~]
$ ls -l /etc/group
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group

(sayal002@kali.example.com)-[~]
$ grep "test" /etc/group
test:x:1252984:

(sayal002@kali.example.com)-[~]
$ sudo groupmod -n newtest test

(sayal002@kali.example.com)-[~]
$ sudo usermod -aG newtest sayal002

(sayal002@kali.example.com)-[~]
$ touch ~/testfile

(sayal002@kali.example.com)-[~]
$ sudo chgrp newtest ~/testfile

(sayal002@kali.example.com)-[~]
$
```

10. .100

```
Terminal - sayal002@kali.example.com: ~  
File Edit View Terminal Tabs Help  
-rw-r--r-- 1 root root 1401 Sep 23 19:53 /etc/group  
  
(sayal002@kali.example.com)-[~]  
$ grep "test" /etc/group  
test:x:1252984:  
  
(sayal002@kali.example.com)-[~]  
$ sudo groupmod -n newtest test  
  
(sayal002@kali.example.com)-[~]  
$ sudo usermod -aG newtest sayal002  
  
(sayal002@kali.example.com)-[~]  
$ touch ~/testfile  
  
(sayal002@kali.example.com)-[~]  
$ sudo chgrp newtest ~/testfile  
  
(sayal002@kali.example.com)-[~]  
$ ls -l ~/testfile  
-rw-rw-r-- 1 sayal002 newtest 0 Sep 23 20:00 /home/sayal002/testfile  
  
(sayal002@kali.example.com)-[~]  
$
```

11. .101

```
Terminal - sayal002@kali.example.com: ~
File Edit View Terminal Tabs Help
└─$ sudo groupmod -n newtest test

(sayal002@kali.example.com)-[~]
└─$ sudo usermod -aG newtest sayal002

(sayal002@kali.example.com)-[~]
└─$ touch ~/testfile

(sayal002@kali.example.com)-[~]
└─$ sudo chgrp newtest ~/testfile

(sayal002@kali.example.com)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 sayal002 newtest 0 Sep 23 20:00 /home/sayal002/testfile

(sayal002@kali.example.com)-[~]
└─$ sudo groupdel newtest

(sayal002@kali.example.com)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 sayal002 1252984 0 Sep 23 20:00 /home/sayal002/testfile

(sayal002@kali.example.com)-[~]
└─$
```

12. .102 (I highlighted it because it didn't delete at first so I had to actually logout of the user and then try to delete it. Afterwards I checked it was deleted with grep

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(sayal002@kali.example.com)-[~]
$ sudo groupdel newtest

(sayal002@kali.example.com)-[~]
$ ls -l ~/testfile
-rw-rw-r-- 1 sayal002 1252984 0 Sep 23 20:00 /home/sayal002/testfile

(sayal002@kali.example.com)-[~]
$ sudo userdel -r sayal002
userdel: user sayal002 is currently used by process 12654

(sayal002@kali.example.com)-[~]
$ exit
logout

(student@kali.example.com)-[~]
$ sudo userdel -r sayal002
userdel: sayal002 mail spool (/var/mail/sayal002) not found

(student@kali.example.com)-[~]
$ grep "sayal002" /etc/passwd

(student@kali.example.com)-[~]
$
```