

File Actions Edit View Help

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo groupadd employee
```

```
[sudo] password for kali:
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo groupadd payroll
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo groupadd admin
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo useradd -m -s /bin/bash Sophia
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo usermod -g employee Sophia
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo useradd -m -s /bin/bash Olivia
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo usermod -g payroll Olivia
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo useradd -m -s /bin/bash Emma
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo usermod -g admin Emma
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo passwd Sophia
```

```
New password:
```

```
Retype new password:
```

```
passwd: password updated successfully
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo passwd Olivia
```

```
New password:
```

```
Retype new password:
```

```
passwd: password updated successfully
```

```
(kali㉿kali)-[~/Desktop]
```

```
$ sudo passwd Emma
```

```
New password:
```

```
Retype new password:
```

```
passwd: password updated successfully
```

```
(kali㉿kali)-[~/Desktop]
└─$ sudo groupadd asidw002

(kali㉿kali)-[~/Desktop]
└─$ sudo usermod -aG asidw002 Sophia

(kali㉿kali)-[~/Desktop]
└─$ sudo usermod -aG asidw002 Olivia

(kali㉿kali)-[~/Desktop]
└─$ sudo usermod -aG asidw002 Emma

(kali㉿kali)-[~/Desktop]
└─$ id Sophia
uid=1007(Sophia) gid=1007(employee) groups=1007(employee),1013(asidw002)

(kali㉿kali)-[~/Desktop]
└─$ id Olivia
uid=1008(Olivia) gid=1008(payroll) groups=1008(payroll),1013(asidw002)

(kali㉿kali)-[~/Desktop]
└─$ id Emma
uid=1009(Emma) gid=1009(admin) groups=1009(admin),1013(asidw002)

(kali㉿kali)-[~/Desktop]
└─$ sudo mkdir /home/cyse_project

(kali㉿kali)-[~/Desktop]
└─$ sudo chown :asidw002 /home/cyse_project

(kali㉿kali)-[~/Desktop]
└─$ ls -l /home/cyse_project
total 0

(kali㉿kali)-[~/Desktop]
└─$ ls -ld /home/cyse_project
drwxr-xr-x 2 root asidw002 4096 Oct 16 00:08 /home/cyse_project

(kali㉿kali)-[~/Desktop]
└─$ sudo chmod 770 /home/cyse_project

(kali㉿kali)-[~/Desktop]
└─$ ls -ld /home/cyse_project
rwxrwx--- 2 root asidw002 4096 Oct 16 00:08 /home/cyse_project
```

```
(kali㉿kali)-[~/Desktop]
└─$ su Sophia
Password:
(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ umask 027

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ umask
0027

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ touch ~/Sophia_homework

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ echo "Aidan Sidwell" > ~/Sophia_homework

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ ls -l ~/Sophia_homework
-rw-r----- 1 Sophia employee 14 Oct 16 00:38 /home/Sophia/Sophia_homework

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ cat ~/Sophia_homework
Aidan Sidwell

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ cp ~/Sophia_homework /home/cyse_project/

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ ls -l /home/cyse_project/Sophia_homework
-rw-r----- 1 Sophia employee 14 Oct 16 00:40 /home/cyse_project/Sophia_homework

(Sophia㉿kali)-[~/home/kali/Desktop]
└─$ su Emma
Password:
(Emma㉿kali)-[~/home/kali/Desktop]
└─$ cat /home/cyse_project/Sophia_homework
cat: /home/cyse_project/Sophia_homework: Permission denied

(Emma㉿kali)-[~/home/kali/Desktop]
└─$ su kali
Password:
(kali㉿kali)-[~/Desktop]
└─$ █

(kali㉿kali)-[~/Desktop]
└─$ sudo chmod g+s /home/cyse_project
[sudo] password for kali:

(kali㉿kali)-[~/Desktop]
└─$ ls -ld /home/cyse_project
drwxrws--- 2 root asidw002 4096 Oct 16 00:40 /home/cyse_project
```

```
(Emma@kali)-[~/kali/Desktop]
└─$ cat /home/cyse_project/Sophia_homework2
Aidan Sidwell

(kali@kali)-[~/Desktop]
└─$ sudo chmod g-s /home/cyse_project

(kali@kali)-[~/Desktop]
└─$ ls -ld /home/cyse_project
drwxrwx--- 2 root asidw002 4096 Oct 16 01:05 /home/cyse_project

(kali@kali)-[~/Desktop]
└─$ su Sophia
Password:
(Sophia@kali)-[~/kali/Desktop]
└─$ cp ~/Sophia_homework /home/cyse_project?Sophia_homework3
cp: cannot create regular file '/home/cyse_project?Sophia_homework3': Permission denied

(Sophia@kali)-[~/kali/Desktop]
└─$ cp ~/Sophia_homework /home/cyse_project/Sophia_homework3

(olivia@kali)-[~/kali/Desktop]
└─$ cat /home/cyse_project/Sophia_homework3
cat: /home/cyse_project/Sophia_homework3: Permission denied
```