Assignment 6

JP Hylenski

1)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ sudo groupadd employee

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo groupadd payroll

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo groupadd admin
```

2)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ sudo useradd -m -d /home/Sophia -g employee -s /bin/bash Sophia

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo useradd -m -d /home/Olivia -g payroll -s /bin/bash Olivia

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo useradd -m -d /home/Emma -g admin -s /bin/bash Emma
```

3)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ sudo usermod -aG jhyle001 Sophia

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo usermod -aG jhyle001 Emma

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo usermod -aG jhyle001 Olivia

┌──(justin_hylenski㉿kali)-[~]
└─$ groups Sophia
Sophia : employee jhyle001

┌──(justin_hylenski㉿kali)-[~]
└─$ groups Olivia
Olivia : payroll jhyle001

┌──(justin_hylenski㉿kali)-[~]
└─$ groups emma
groups: 'emma': no such user

┌──(justin_hylenski㉿kali)-[~]
└─$ groups Emma
Emma : admin jhyle001
```

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

┌──(justin_hylenski㉿kali)-[~]
└─$ sudo chgrp jhyle001 /home/cyse_project

┌──(justin_hylenski㉿kali)-[~]
└─$ ls -ld /home/cyse_project
drwxr-xr-x 2 root jhyle001 4096 Nov 22 22:36 /home/cyse_project
```
4)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ sudo chmod 770 /home/cyse_project

┌──(justin_hylenski㉿kali)-[~]
└─$ ls -ld /home/cyse_project
drwxrwx─── 2 root jhyle001 4096 Nov 22 22:36 /home/cyse_project
```
5)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ su - Sophia
Password:
┌──(Sophia㉿kali)-[~]
└─$ umask 027

┌──(Sophia㉿kali)-[~]
└─$ umask
0027

┌──(Sophia㉿kali)-[~]
└─$ touch testfile

┌──(Sophia㉿kali)-[~]
└─$ ls -l testfile
-rw-r───── 1 Sophia employee 0 Nov 22 22:39 testfile
```
6)
```
┌──(Sophia㉿kali)-[~]
└─$ echo "justin" > Sophia_homework

┌──(Sophia㉿kali)-[~]
└─$ ls -l Sophia_homework
-rw-r───── 1 Sophia employee 7 Nov 22 22:40 Sophia_homework

┌──(Sophia㉿kali)-[~]
└─$ cat Sophia_homework
justin
```
7)
```
┌──(Sophia㉿kali)-[~]
└─$ cp Sophia_homework /home/cyse_project

┌──(Sophia㉿kali)-[~]
└─$ ls -l /home/cyse_project
total 4
-rw-r───── 1 Sophia employee 7 Nov 22 22:41 Sophia_homework
```
8)

9)
```
┌──(Sophia㉿kali)-[~]
└─$ su - Emma
Password:
┌──(Emma㉿kali)-[~]
└─$ cat /home/cyse_project/Sophia_homework
cat: /home/cyse_project/Sophia_homework: Permission denied
```

10)
```
┌──(Emma㉿kali)-[~]
└─$ exit
logout

┌──(Sophia㉿kali)-[~]
└─$ exit
logout
```

Task B

1)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ sudo chmod g+s /home/cyse_project

┌──(justin_hylenski㉿kali)-[~]
└─$ ls -ld /home/cyse_project
drwxrws─── 2 root jhyle001 4096 Nov 22 22:41 /home/cyse_project
```

2)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ su - Sophia
Password:
┌──(Sophia㉿kali)-[~]
└─$ cp Sophia_homework /home/cyse_project/Sophia_homework2

┌──(Sophia㉿kali)-[~]
└─$ exit
logout
```

3)
```
┌──(justin_hylenski㉿kali)-[~]
└─$ su - Emma
Password:
┌──(Emma㉿kali)-[~]
└─$ cat /home/cyse_project/Sophia_homework2
justin

┌──(Emma㉿kali)-[~]
└─$ exit
logout
```

Task C

```
┌──(justin_hylenski㊐kali)-[~]
└─$ sudo chmod g-s /home/cyse_project

┌──(justin_hylenski㊐kali)-[~]
└─$ sudo chmod g-r /home/cyse_project

┌──(justin_hylenski㊐kali)-[~]
└─$ ls -ld /home/cyse_project
drwx-wx─── 2 root jhyle001 4096 Nov 22 22:45 /home/cyse_project
```

1)

```
┌──(justin_hylenski㊐kali)-[~]
└─$ su - Sophia
Password:
┌──(Sophia㊐kali)-[~]
└─$ cp Sophia_homework
cp: missing destination file operand after 'Sophia_homework
Try 'cp --help' for more information.

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

┌──(Sophia㊐kali)-[~]
└─$ exit
logout
```

2)

```
┌──(justin_hylenski㊐kali)-[~]
└─$ su - Olivia
Password:
┌──(Olivia㊐kali)-[~]
└─$ cat /home/cyse_project/Sophia_homework3
justin

┌──(Olivia㊐kali)-[~]
└─$ exit
logout
```

3)

Extra Credit

```
┌──(justin_hylenski㊐kali)-[~]
└─$ su - Olivia
Password:
┌──(Olivia㊐kali)-[~]
└─$ rm /home/cyse_project/Sophia_homework
rm: remove write-protected regular file '/home/cyse_project/Sophia_homework'?
 yes

┌──(Olivia㊐kali)-[~]
└─$ exit
logout
```

1)

2)

```
┌──(justin_hylenski⊗kali)-[~]
└─$ sudo chmod +t /home/cyse_project

┌──(justin_hylenski⊗kali)-[~]
└─$ ls -ld /home/cyse_project
drwx-wx--T 2 root jhyle001 4096 Nov 22 22:51 /home/cyse_project
```

3)

```
┌──(justin_hylenski⊗kali)-[~]
└─$ su - Olivia
Password:
┌──(Olivia⊗kali)-[~]
└─$ rm /home/cyse_project/Sophia_homework3
rm: remove write-protected regular file '/home/cyse_project/Sophia_homework3'
? yes
rm: cannot remove '/home/cyse_project/Sophia_homework3': Operation not permit
ted

┌──(Olivia⊗kali)-[~]
└─$ exit
logout
```