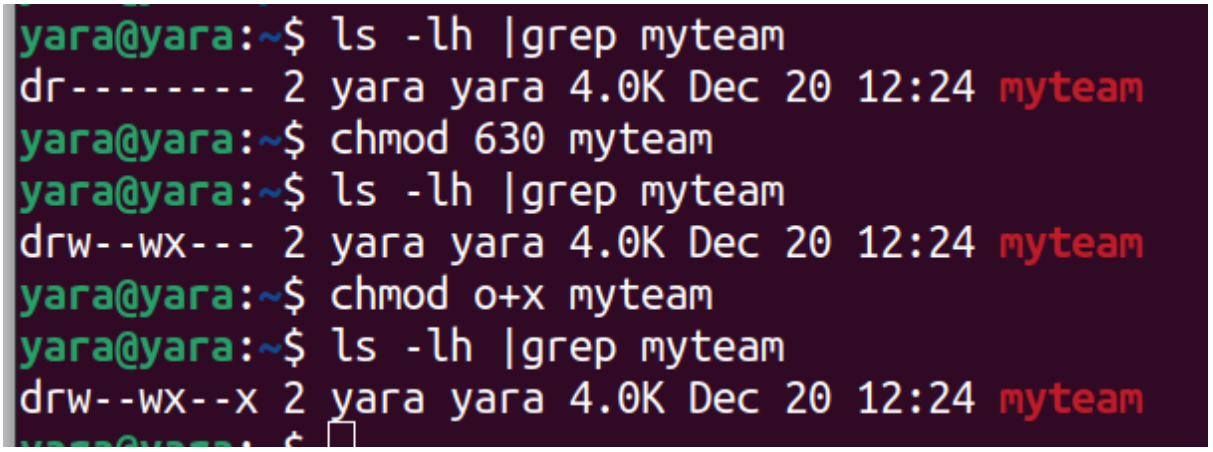
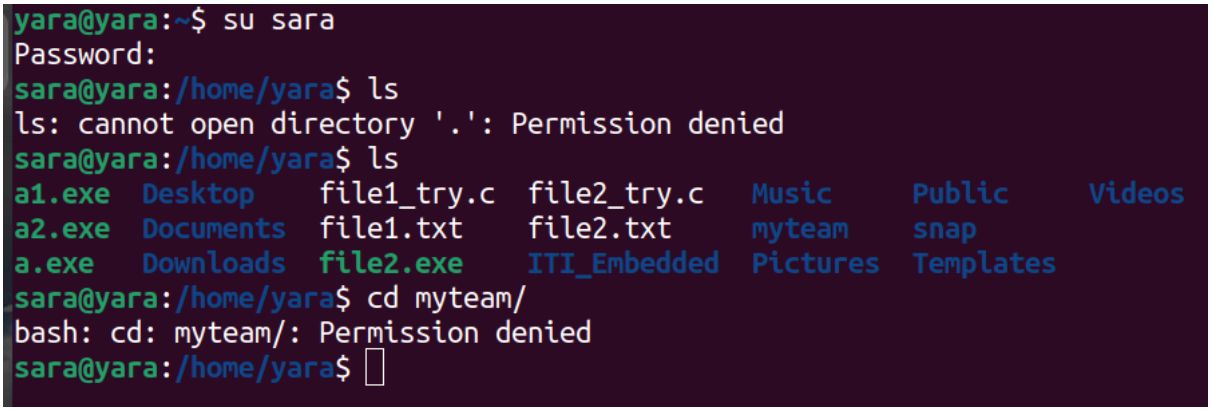
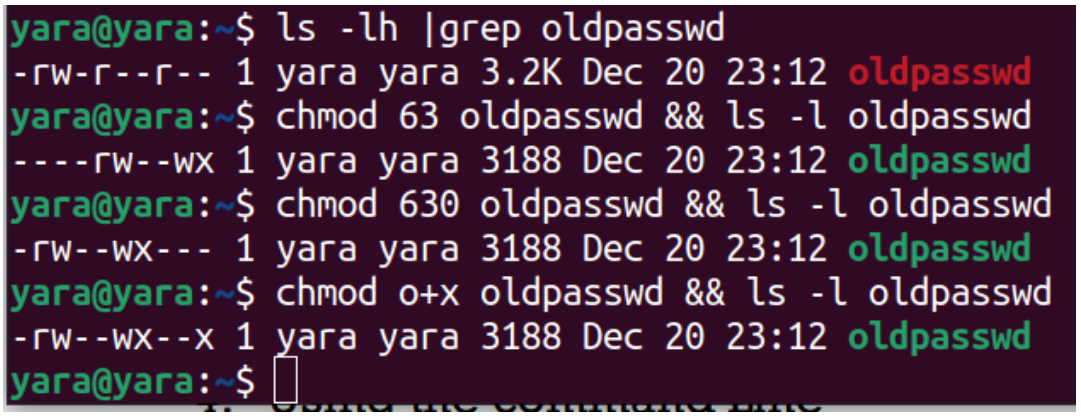
Day 6

- **Section 1**
  1. Create a folder called myteam in your home directory and change its permissions to read only for the owner.
  2. Log out and log in by another user
  3. Try to access (by cd command) the folder (myteam)





  4. Using the command Line
     a. Change the permissions of oldpasswd (using chmod in 2 different ways)



b. Change your default permissions to be as above.

```
export PS2=": "
export PATH=$PATH:/usr/local/bin
export HELLO=$HOSTNAME
export LOCAL=$(whoami)
umask 146
"~/.bashrc" 123L, 3945B                                    123,9
```

```
yara@yara:~$ vim ~/.bashrc
yara@yara:~$ source ~/.bashrc
yara@yara:~$ mkdir dir1234
yara@yara:~$ ls -lh
total 132K
-rwxrwxr-x 1 yara yara  16K Dec 15 19:15 a1.exe
-rwxrwxr-x 1 yara yara  16K Dec 15 19:15 a2.exe
-rwxrwxr-x 1 yara yara  16K Dec 15 18:19 a.exe
drwxr-xr-x 2 yara yara 4.0K Dec 20 15:10 Desktop
drwx-wx--x 2 yara yara 4.0K Dec 26 16:32 dir123
drw--wx--x 2 yara yara 4.0K Dec 26 16:33 dir1234
```

c. What is the maximum permission a file can have, by default when it is just created? And what is that for directory.

i. **Files**: Maximum default permission is **666**.

ii. **Directories**: Maximum default permission is **777**.

iii. Actual permissions depend on the **umask** value

d. Change your default permissions to be no permission to everyone then create directory and a file to verify.

```
yara@yara:~$ vim ~/.bashrc
yara@yara:~$ source ~/.bashrc
yara@yara:~$ mkdir dir1
yara@yara:~$ touch file_no_perm.txt
yara@yara:~$ ls -lh
total 132K
-rwxrwxr-x 1 yara yara  16K Dec 15 19:15 a1.exe
-rwxrwxr-x 1 yara yara  16K Dec 15 19:15 a2.exe
-rwxrwxr-x 1 yara yara  16K Dec 15 18:19 a.exe
drwxr-xr-x 2 yara yara 4.0K Dec 20 15:10 Desktop
d--------- 2 yara yara 4.0K Dec 26 16:53 dir1
d--------- 2 yara yara 4.0K Dec 26 16:50 dir12345
drwxr-xr-x 2 yara yara 4.0K Dec  4 18:14 Documents
drwxr-xr-x 2 yara yara 4.0K Dec 25 21:44 Downloads
-rw-rw-r-- 1 yara yara 2.8K Dec 15 19:10 file1_try.c
-rw-rw-r-- 1 yara yara    7 Dec  7 20:13 file1.txt
-rwxrwxr-x 1 yara yara  16K Dec 15 18:28 file2.exe
-rw-rw-r-- 1 yara yara 3.7K Dec 15 19:17 file2_try.c
---------- 1 yara yara    0 Dec 26 16:54 file_no_perm.txt
```

e. State who can access a this file if any with proof.

```
yara@yara:~$ sudo cd -s dir1
sudo: cd: command not found
sudo: "cd" is a shell built-in command, it cannot be run directly.
sudo: the -s option may be used to run a privileged shell.
sudo: the -D option may be used to run a command in a specific directory.
yara@yara:~$ sudo cat file_no_perm.txt
yara@yara:~$ sudo vim file_no_perm.txt
yara@yara:~$ echo "hello world" >> file_no_perm.txt
bash: file_no_perm.txt: Permission denied
yara@yara:~$ sudo echo "hello world" >> file_no_perm.txt
bash: file_no_perm.txt: Permission denied
```

- **Create a new directory.**
  1. **Set the sticky bit on the newly created directory.**
  2. **set the setgui bit on the created directory**
  3. **Create multiple user accounts.**
  4. **Allow these users to create files within the directory and directory.**
  5. **Attempt to delete or rename each other's files.**
  6. **Provide a clear output demonstrating the impact of the sticky bit on file**
     deletion and renaming within the directory.
  7. **Provide a clear output for the directory created.**
- **List the permission passwd command has and explain why it has S**