Professor: **Rogelio Hernández Hernández**
Work made by: **Christian Aaron Ortega Blanco**
Hermosillo, Son. 25 de mayo de 2022.

1.

A. Verify the default permission for the file lab1

```
chris@DESKTOP-8LCLCKD /home/Student
$ cd Tareas

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ cd Software

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ ls -l
total 0
-rw-r--r-- 1 chris chris 0 May 24 15:42 Lab1.txt
-rw-r--r-- 1 chris chris 0 May 24 15:42 Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ chmod +rwx Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ ls -l
total 0
-rw-r--r-- 1 chris chris 0 May 24 15:42 Lab1.txt
-rwxr-xr-x 1 chris chris 0 May 24 15:42 Lab2.txt
```

B. Change the permissions of the file lab2 so that no one can read, write and execute it, except for the owner (using symbolic representation).

```
chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ chmod +rwx Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ ls -l
total 0
-rw-r--r-- 1 chris chris 0 May 24 15:42 Lab1.txt
-rwxr-xr-x 1 chris chris 0 May 24 15:42 Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ chmod g-rwx Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ chmod o-rwx Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ ls -l
total 0
-rw-r--r-- 1 chris chris 0 May 24 15:42 Lab1.txt
-rwx------ 1 chris chris 0 May 24 15:42 Lab2.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$
```

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C. Use the octal representation to give only reading permission for all users to the 'software' directory.

```
chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ cd ..

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ ls -l
total 0
drwxr-xr-x+ 1 chris chris 0 May 24 15:42 Software

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ chmod 444 Software

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ ls -l
total 0
dr--r--r-- 1 chris chris 0 May 24 15:42 Software
```

D. Use both octal and symbolic representation to give only read and execute permissions for each file in the three

```
chris@DESKTOP-8LCLCKD /home/Student
$ ls
Proyecto  Report.txt  Tareas

chris@DESKTOP-8LCLCKD /home/Student
$ chmod 555 Report.txt

chris@DESKTOP-8LCLCKD /home/Student
$ ls -l
total 0
drwxr-xr-x+ 1 chris chris 0 May 24 16:41 Proyecto
-r-xr-xr-x  1 chris chris 0 May 24 15:38 Report.txt
drwxr-xr-x+ 1 chris chris 0 May 24 16:49 Tareas
```

```
chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ chmod +rx Lab1.txt

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Software
$ ls -l
total 0
-rwxr-xr-x 1 chris chris 0 May 24 15:42 Lab1.txt
-rwx------ 1 chris chris 0 May 24 15:42 Lab2.txt
```

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```
chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ ls
Hardware  Lab3.txt  Lab4.txt

chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ chmod 555 Lab3.txt

chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ chmod 555 Lab4.txt

chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ ls -l
total 0
drwxr-xr-x+ 1 chris chris 0 May 24 16:41 Hardware
-r-xr-xr-x  1 chris chris 0 May 24 15:47 Lab3.txt
-r-xr-xr-x  1 chris chris 0 May 24 15:47 Lab4.txt
```

```
chris@DESKTOP-8LCLCKD /home/Student/Proyecto/hardware
$ chmod 555 lab3.txt

chris@DESKTOP-8LCLCKD /home/Student/Proyecto/hardware
$ ls-l
-bash: ls-l: command not found

chris@DESKTOP-8LCLCKD /home/Student/Proyecto/hardware
$ ls -l
total 0
-r-xr-xr-x 1 chris chris 0 May 24 16:41 Lab3.txt
```

2. Using 4 files in your document's directory
   - Use both, octal and symbolic representation to give only read permissions for all users.

```
drwx------+ 1 chris      chris          0 Oct    2021  photos
drwx------+ 1 chris      chris          0 Nov 10 2021  memoriasd
drwx------+ 1 chris      chris          0 May  5 22:03 nada
drwx------+ 1 chris      chris          0 Sep 29 2021  orcad_projects
-rwx------+ 1 chris      chris     208006 Feb 21 12:32 'practica dainet.png'
drwx------+ 1 chris      chris          0 May 19 07:56 presilicio
drwx------+ 1 chris      chris          0 Jan 21 23:29 proyects
drwx------+ 1 chris      chris          0 Sep 30 2021  pspice
drwx------+ 1 chris      chris          0 Mar  7 22:59 'seminario de tesis'
drwx------+ 1 chris      chris          0 May 23 09:11 tesis
drwx------+ 1 chris      chris          0 Oct 11 2021  usb_backup

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
```

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Lab#2B: Linux introduction

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```
chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 444 orcad_projects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +r presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g+r presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod o+r presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 444 proyects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +r pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g+r pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod o+r pspice
```

```
drwx------+ 1 chris          chris          0 Oct 29 2021  photos
drwx------+ 1 chris          chris          0 Nov 10 2021  memoriasd
drwx------+ 1 chris          chris          0 May  5 22:03 nada
dr--r--r--+ 1 chris          chris          0 Sep 29 2021  orcad_projects
-rwx------+ 1 chris          chris     208006 Feb 21 12:32 'practica dainet.png'
drwxr--r--+ 1 chris          chris          0 May 19 07:56 presilicio
dr--r--r--+ 1 chris          chris          0 Jan 21 23:29 proyects
drwxr--r--+ 1 chris          chris          0 Sep 30 2021  pspice
drwx------+ 1 chris          chris          0 Mar  7 22:59 'seminario de tesis'
drwx------+ 1 chris          chris          0 May 23 09:11 tesis
drwx------+ 1 chris          chris          0 Oct 11 2021  usb_backup

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
```

- Later add execute permission for owner and group

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Lab#2B: Linux introduction

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```
chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 554 orcad_projects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g+rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 554 proyects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +rx pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g+rx pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ ls -l
```

```
drwx------+ 1 chris          chris          0 May  5 22:03  nada
dr-xr-xr--+ 1 chris          chris          0 Sep 29  2021  orcad_projects
-rwx------+ 1 chris          chris     208006 Feb 21 12:32 'practica dainet.png'
drwxr-xr--+ 1 chris          chris          0 May 19 07:56  presilicio
dr-xr-xr--+ 1 chris          chris          0 Jan 21 23:29  proyects
drwxr-xr--+ 1 chris          chris          0 Sep 30  2021  pspice
drwx------+ 1 chris          chris          0 Mar  7 22:59 'seminario de tesis'
drwx------+ 1 chris          chris          0 May 23 09:11  tesis
drwx------+ 1 chris          chris          0 Oct 11  2021  usb_backup

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
```

- Finally, add permissions for execute for owner.

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Lab#2B: Linux introduction

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```
chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 500 orcad_projects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod -rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g-rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod o-rx presilicio

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod 500 proyects

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod +rx pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod g-rx pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ chmod o-rx pspice

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ ls -l
```

```
drwx------+ 1 chris          chris              0 Nov 10  2021  memoriasd
drwx------+ 1 chris          chris              0 May  5 22:03  nada
dr-x------+ 1 chris          chris              0 Sep 29  2021  orcad_projects
-rwx------+ 1 chris          chris         208006 Feb 21 12:32 'practica dainet.png'
dr-x------+ 1 chris          chris              0 May 19 07:56  presilicio
dr-x------+ 1 chris          chris              0 Jan 21 23:29  proyects
dr-x------+ 1 chris          chris              0 Sep 30  2021  pspice
drwx------+ 1 chris          chris              0 Mar  7 22:59 'seminario de tesis'
drwx------+ 1 chris          chris              0 May 23 09:11  tesis
drwx------+ 1 chris          chris              0 Oct 11  2021  usb_backup
```

3. Use 'man' command to find out about 'umask' command and do some examples.

Lab#2B: Linux introduction

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```
chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ umask --help
umask: umask [-p] [-S] [mode]
    Display or set file mode mask.

    Sets the user file-creation mask to MODE.  If MODE is omitted, prints
    the current value of the mask.

    If MODE begins with a digit, it is interpreted as an octal number;
    otherwise it is a symbolic mode string like that accepted by chmod(1).

    Options:
      -p        if MODE is omitted, output in a form that may be reused as input
      -S        makes the output symbolic; otherwise an octal number is output

    Exit Status:
    Returns success unless MODE is invalid or an invalid option is given.

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
```

Setting umask on 000 sets all permission on default. Every file created from here is going to have all reading, writing and execution permission for all users.

```
chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ umask 000

chris@DESKTOP-8LCLCKD /cygdrive/c/Users/chris/Desktop
$ mkdir carpeta007
```

```
drwx------+ 1 chris        chris           0 Jan 26 18:49  arduino
-rwx------+ 1 chris        chris        1585 Nov 24 16:50 'arduino.exe - Acceso directo
drwx------+ 1 chris        chris           0 Jan 21 14:41 'build v 0.005 final PC'
drwxrwxrwx+ 1 chris        chris           0 May 25 07:56  carpeta007
-rwx------+ 1 chris        chris        2398 May  2 08:15 'chris - Chrome.lnk'
drwx------+ 1 chris        chris           0 Feb 10 15:39  cmos
-rwx------+ 1 chris        chris     8195629 Feb 14 12:34  cmos.zip
```