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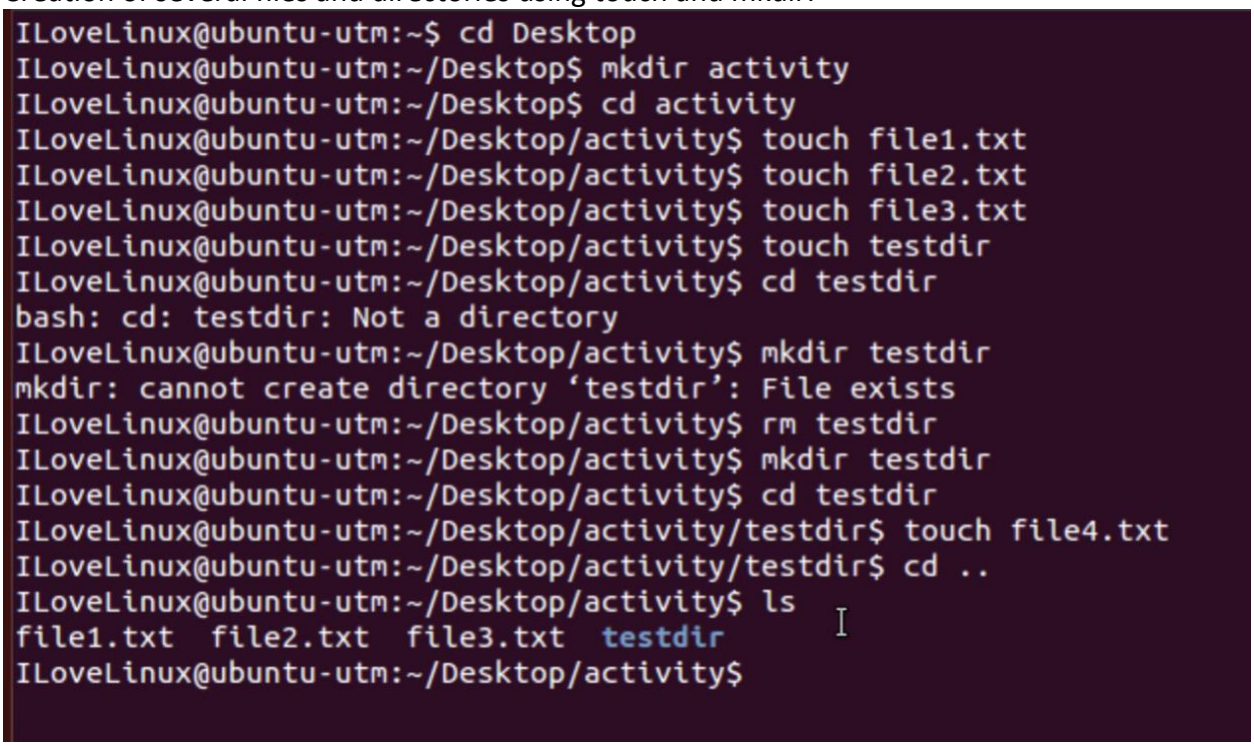
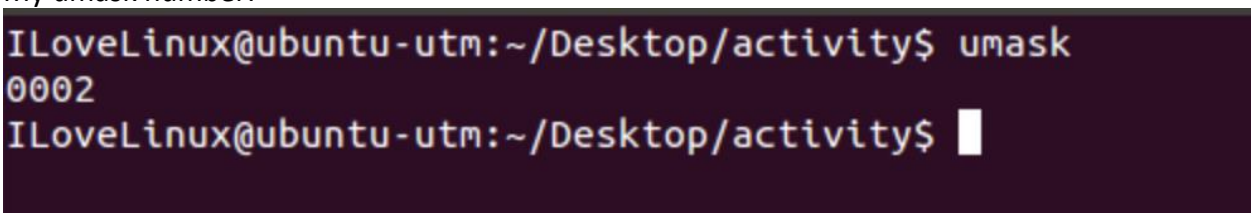
CPSC 4240
File Permissions Activity

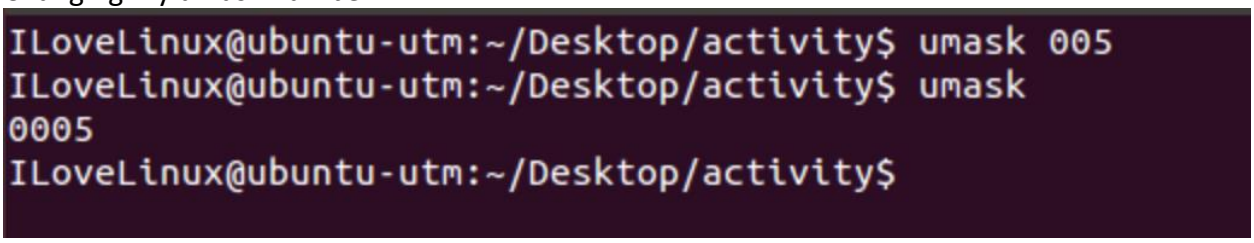
1. Creation of several files and directories using touch and mkdir:



2. My umask number:



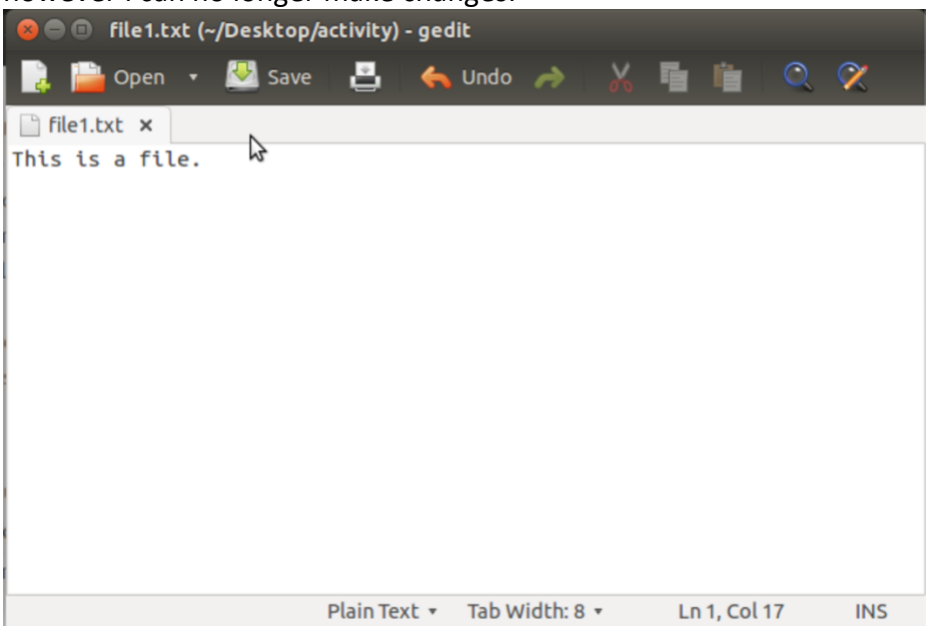
3. Changing my umask number:



4. Showing current file permissions in mneumonic form:

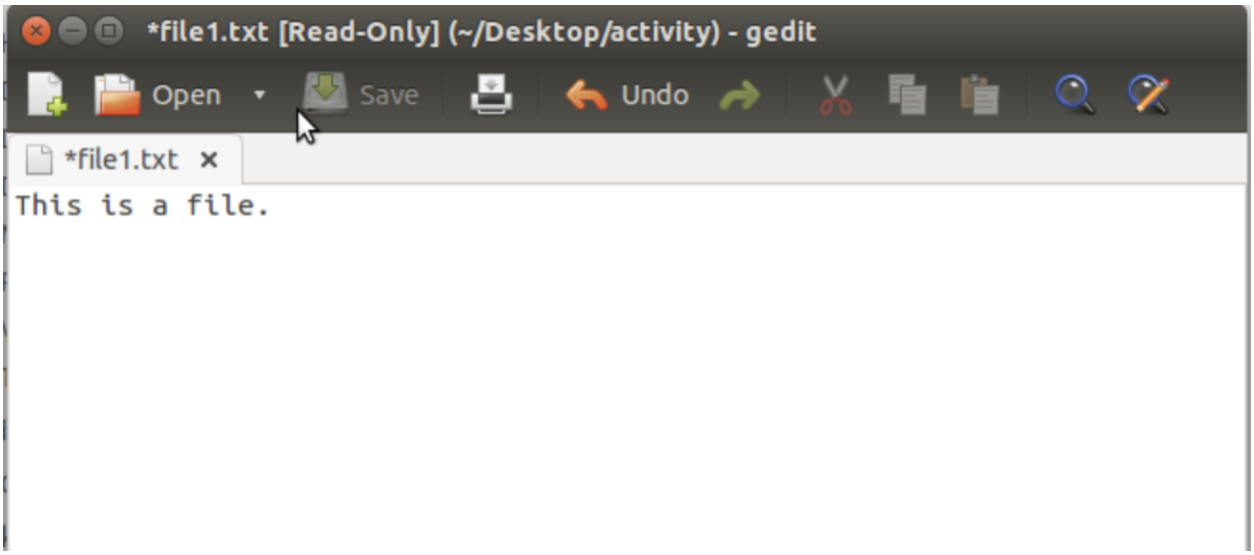
```
ILoveLinux@ubuntu-utm:~/Desktop/activity$ ls -l
total 4
-rw-rw-r-- 1 ILoveLinux ILoveLinux    0 Oct 13 05:37 file1.txt
-rw-rw-r-- 1 ILoveLinux ILoveLinux    0 Oct 13 05:37 file2.txt
-rw-rw-r-- 1 ILoveLinux ILoveLinux    0 Oct 13 05:37 file3.txt
drwxrwxr-x 2 ILoveLinux ILoveLinux 4096 Oct 13 05:38 testdir
ILoveLinux@ubuntu-utm:~/Desktop/activity$
```

5. I can currently open and edit file1.txt. After changing permissions, I can still read the file, however I can no longer make changes.




```
ILoveLinux@ubuntu-utm:~/Desktop/activity$ chmod u-w file1.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$ ls -l file1.txt
-r--rw-r-- 1 ILoveLinux ILoveLinux 17 Oct 13 05:44 file1.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$
```

We can now see in gedit that the file is now read only.



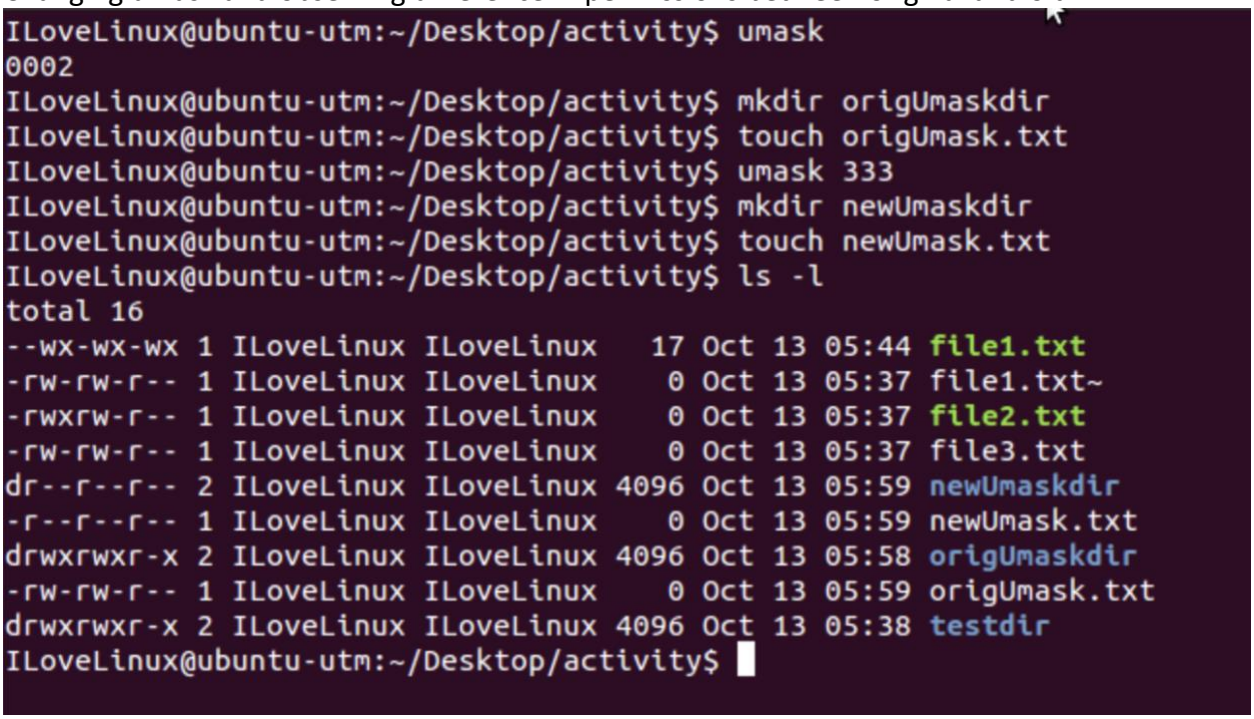
6. Using octal form to remove all permissions for file1.txt:

```
ILoveLinux@ubuntu-utm:~/Desktop/activity$ ls -l file1.txt
-r--rw-r-- 1 ILoveLinux ILoveLinux 17 Oct 13 05:44 file1.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$ chmod 000 file1.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$ ls -l file1.txt
---------- 1 ILoveLinux ILoveLinux 17 Oct 13 05:44 file1.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$
```

7. Giving the execution permission to the owner for file2.txt

```
ILoveLinux@ubuntu-utm:~/Desktop/activity$ chmod u=rwx file2.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$ ls -l file2.txt
-rwxrw-r-- 1 ILoveLinux ILoveLinux 0 Oct 13 05:37 file2.txt
ILoveLinux@ubuntu-utm:~/Desktop/activity$
```

- Changing umask and observing difference in permissions between original and old:



  - Before changing the umask, the original directory (origUmaskdir) has read, write and execute permissions. After changing the umask to 333, the new directory made (newUmaskdir) had only read permissions. Likewise the file made with the original umask (origUmask.txt) had rw permissions while the new file (newUmask.txt) only had read permissions.
- Will changing umask on the command line be permanent, or will it go back after reboot?
  - The umask goes back to its original value once the user logs out or reboots. However, a permanent change can be made by changing the configuration files like the /etc/bashrc file.
- The file /etc/profile contains the default system wide umask value. For an individual, the umask value is stored in .bashrc.