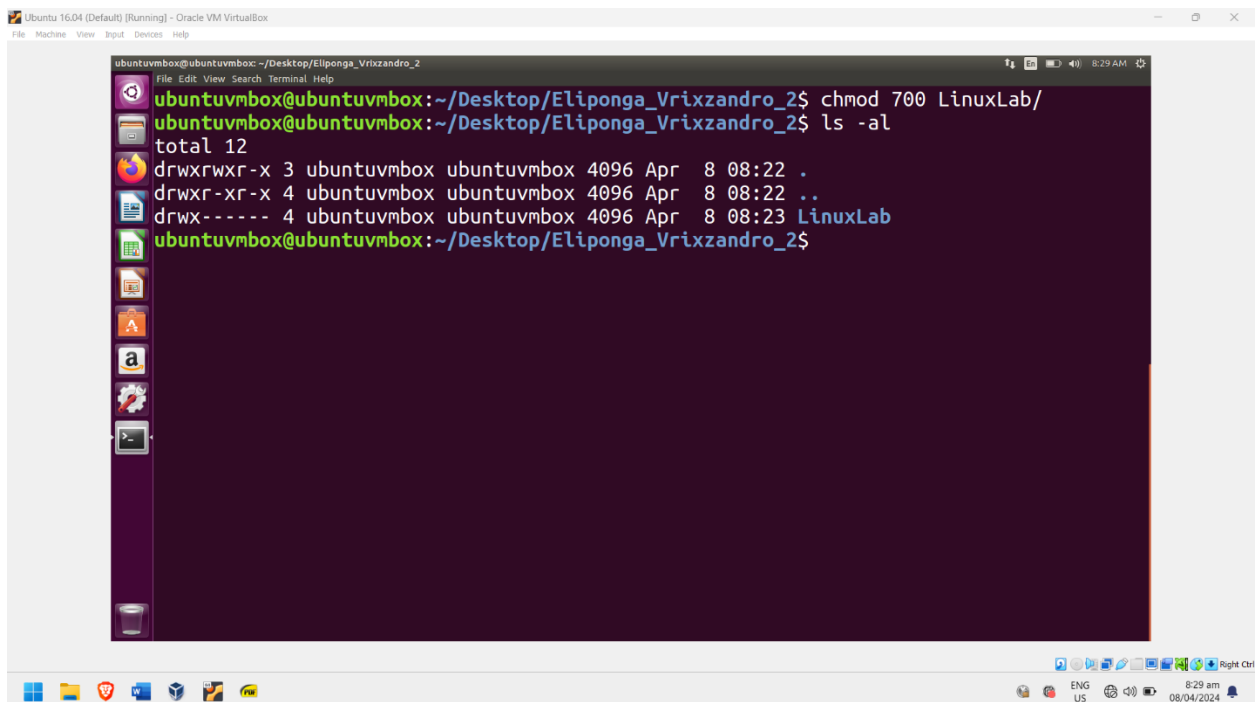


1. Open **terminal** application and then use the **mkdir** command to make a directory. **EXAMPLE: mkdir Eliponga_Vrixzandro_2.**
 2. Use the **cd** command to change the directory and go to the newly created directory. **EXAMPLE: cd Eliponga_Vrixzandro.**
 3. To create a directory, use the **mkdir** command and to make a file use the **touch** command. **EXAMPLES: mkdir FirstPart, touch file1 or file1.txt**
 4. To change a directory or file's permission, go to where the directory or file's location in the computer with the **cd** command then use the **chmod** command to change the permission. **EXAMPLE: chmod 755 file1.txt, chmod 775 FirstPart**
- For the **LinuxLab** directory, change the permission by using the command **chmod 700 LinuxLab**. The results are:
 - Owner has the permission of **read, write and execute**
 - Group has no permission
 - All Users has no permission

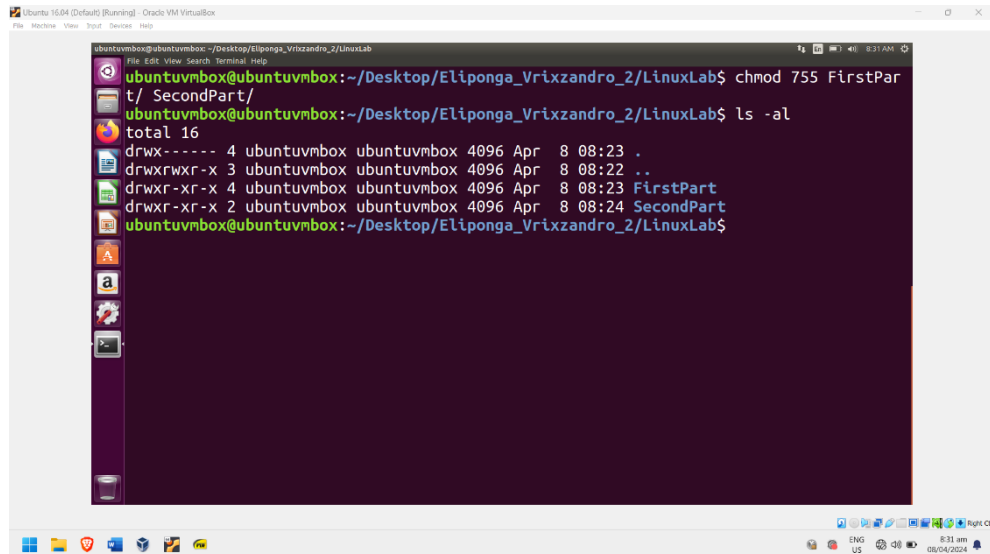


The screenshot shows a terminal window titled "Ubuntu 16.04 (Default) [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
ubuntuvmbox@ubuntuvmbox: ~/Desktop/Eliponga_Vrixzandro_2
ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2$ chmod 700 LinuxLab/
ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2$ ls -al
total 12
drwxrwxr-x 3 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:22 .
drwxr-xr-x 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:22 ..
drwx----- 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 LinuxLab
ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2$
```

The terminal window is part of a desktop environment with a sidebar on the left containing icons for various applications. The bottom of the screen shows a taskbar with system icons and the date/time: 8:29 am, 08/04/2024.

- For the **FirstPart** and **SecondPart** directories inside the **LinuxLab** directory, change the permission by using the command **chmod 755 FirstPart SecondPart**. The results are:
 - Owner has the permission of **read**, **write** and **execute**
 - Group has **read** and **write** permission
 - All Users has **read** and **write** permission

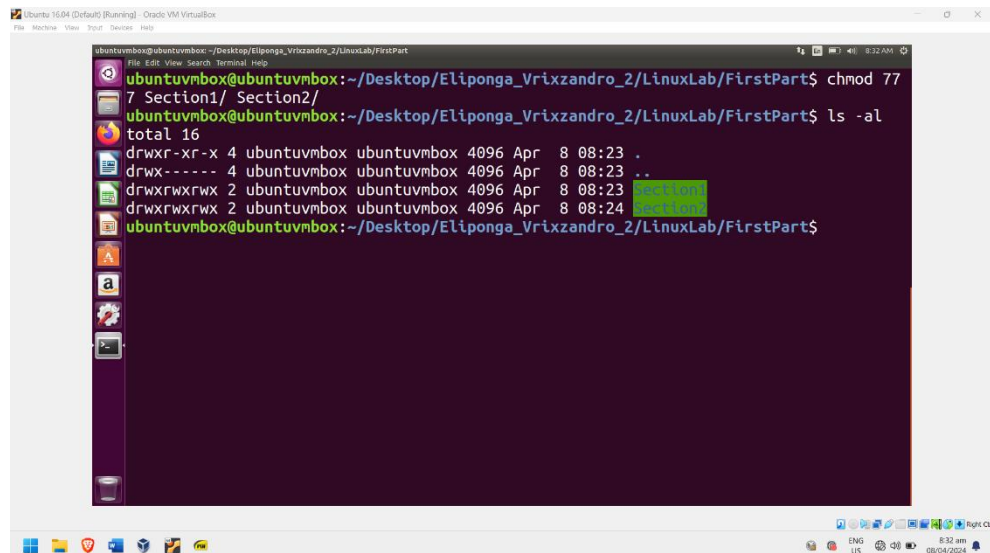


```

ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab$ chmod 755 FirstPart
SecondPart/
ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab$ ls -al
total 16
drwx----- 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 .
drwxrwxr-x 3 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:22 ..
drwxr-xr-x 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 FirstPart
drwxr-xr-x 2 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:24 SecondPart
ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab$

```

- For the **Section1** and **Section2** directories inside the **FirstPart** directory, change the permission by using the command **chmod 777 Section1 Section2**. The results are:
 - Owner has all permissions
 - Group has all permissions
 - All Users has all permissions



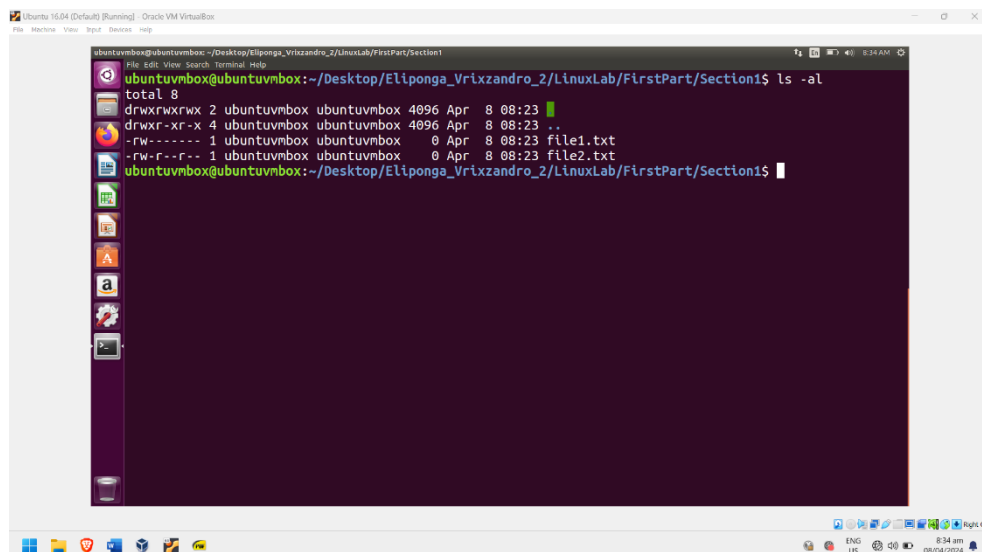
```

ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart$ chmod 77
7 Section1/ Section2/
ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart$ ls -al
total 16
drwxr-xr-x 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 .
drwx----- 4 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 ..
drwxrwxrwx 2 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:23 Section1
drwxrwxrwx 2 ubuntuvmbox ubuntuvmbox 4096 Apr  8 08:24 Section2
ubuntu@ubuntu:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart$

```

- Inside the **Section1** directory, for the **file1.txt** inside the **Section1** directory use the command **chmod 600 file1.txt** then for the **file2.txt** inside the **Section1** directory as well, use the command **chmod 644 file2.txt** The results for both files are:

- For **file1.txt**
 - Owner has **read** and **write** permissions
 - Group has no permissions
 - All Users has no permissions
- For **file2.txt**
 - Owner has **read** and **write** permissions
 - Group only has **read** permission
 - All Users only has **read** permission



```

ubuntuvmbx@ubuntuvmbx: ~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section1
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section1$ ls -al
total 8
drwxrwxrwx 2 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:23 .
drwxr-xr-x 4 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:23 ..
-rw----- 1 ubuntuvmbx ubuntuvmbx  0 Apr  8 08:23 file1.txt
-rw-r--r-- 1 ubuntuvmbx ubuntuvmbx  0 Apr  8 08:23 file2.txt
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section1$

```

- Inside the **Section2** directory, for the **file3.txt** inside the **Section2** directory use the command **chmod 666 file1.txt** then for the **file4.txt** inside the **Section2** directory as well, use the command **chmod 700 file2.txt** The results for both files are:

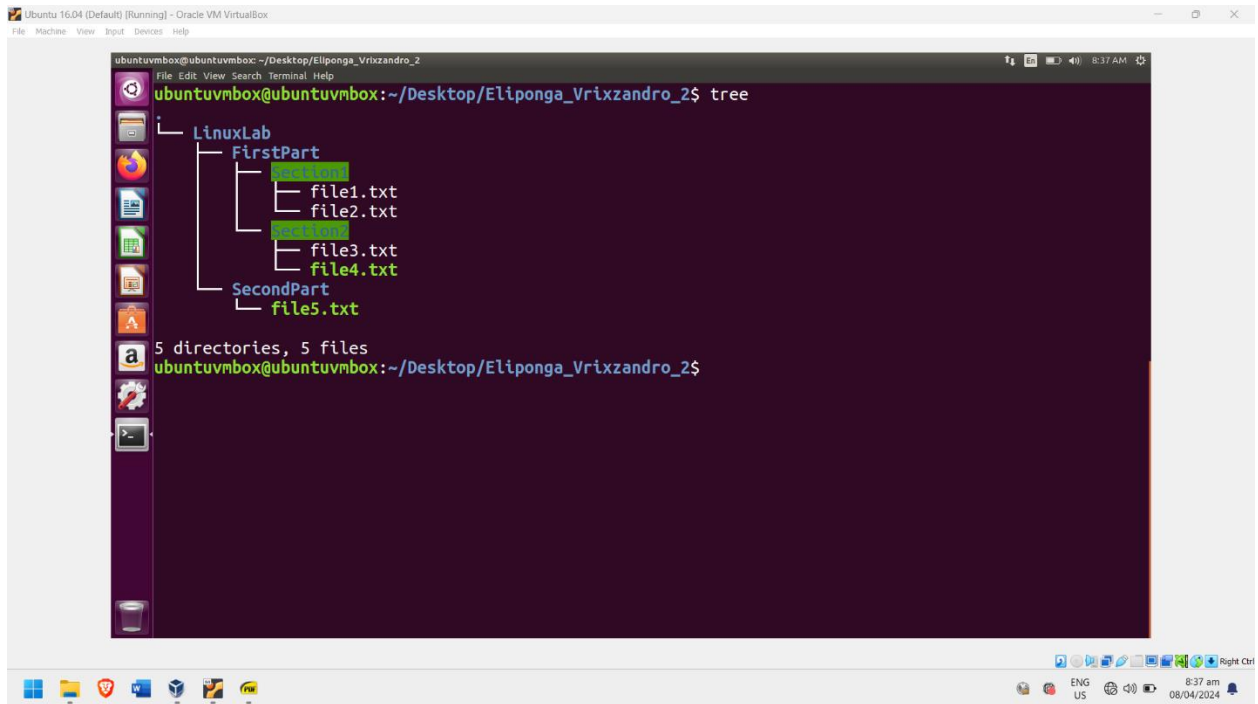
- For **file3.txt**
 - Owner has **read** and **write** permissions
 - Group has **read** and **write** permissions
 - All Users has **read** and **write** permissions
- For **file4.txt**
 - Owner has **read**, **write** and **execute** permissions
 - Group only has no permission
 - All Users only has no permission

```
ubuntuvmbx@ubuntuvmbx: ~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section2
File Edit View Search Terminal Help
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section2$ ls -al
total 8
drwxrwxrwx 2 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:24
drwxr-xr-x 4 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:23 ..
-rw-rw-rw- 1 ubuntuvmbx ubuntuvmbx   0 Apr  8 08:24 file3.txt
-rwx----- 1 ubuntuvmbx ubuntuvmbx   0 Apr  8 08:24 file4.txt
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/FirstPart/Section2$
```

- For the **file5.txt** file inside the **SecondPart** directory, use the command **chmod 755 file.txt**. The results are:
 - Owner has the permission of **read**, **write** and **execute**
 - Group has **read** and **execute** permission
 - All Users has **read** and **execute** permission

```
ubuntuvmbx@ubuntuvmbx: ~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/SecondPart
File Edit View Search Terminal Help
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/SecondPart$ chmod 755 file5.txt
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/SecondPart$ ls -al
total 8
drwxr-xr-x 2 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:24 .
drwx----- 4 ubuntuvmbx ubuntuvmbx 4096 Apr  8 08:23 ..
-rwxr-xr-x 1 ubuntuvmbx ubuntuvmbx   0 Apr  8 08:24 file5.txt
ubuntuvmbx@ubuntuvmbx:~/Desktop/Eliponga_Vrixzandro_2/LinuxLab/SecondPart$
```

- Using the **tree** command to show directories and files in the terminal, the final output be like in the image below:



The image shows a terminal window titled 'ubuntuvmbox@ubuntuvmbox: ~/Desktop/Eliponga_Vrixzandro_2'. The terminal displays the output of the 'tree' command, which shows a directory structure. The root directory is 'LinuxLab', which contains two subdirectories: 'FirstPart' and 'SecondPart'. 'FirstPart' contains four files: 'file1.txt', 'file2.txt', 'file3.txt', and 'file4.txt'. 'SecondPart' contains one file: 'file5.txt'. Below the tree structure, the terminal shows the summary '5 directories, 5 files' and the prompt 'ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2\$'.

```
ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2$ tree
.
├── LinuxLab
│   ├── FirstPart
│   │   ├── file1.txt
│   │   ├── file2.txt
│   │   ├── file3.txt
│   │   └── file4.txt
│   └── SecondPart
│       └── file5.txt
└── 5 directories, 5 files
ubuntuvmbox@ubuntuvmbox:~/Desktop/Eliponga_Vrixzandro_2$
```