

Ayesha Zubair

52916

Lab 4

Creating file named atomic-notes:

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ pico atomic-notes
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
atomic-notes  Physics
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Task 1: Rename atomic-notes to at-notes

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ mv atomic-notes at-notes
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
at-notes  Physics
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Task 2: Moving the file to Nuclear under Physics

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ mv at-notes Physics/Nuclear
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
Chemistry Computer Maths Physics
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ cd Physics
ayesha@ayesha-VMware-Virtual-Platform:~/Books/Physics$ ls
Nuclear
ayesha@ayesha-VMware-Virtual-Platform:~/Books/Physics$ cd Nuclear
ayesha@ayesha-VMware-Virtual-Platform:~/Books/Physics/Nuclear$ ls
at-notes
ayesha@ayesha-VMware-Virtual-Platform:~/Books/Physics/Nuclear$
```

Task 3: Removed Write(w) permission for owner (user) from file result.comp.

Group and other get execute access for file stock.

Set group access for reading(r) and execute(x) of myfile.

Creating file: result.comp.

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books/Physics/Nuclear$ cd
ayesha@ayesha-VMware-Virtual-Platform:~$ ls
Books Desktop Documents Downloads Music Pictures Public snap Templates Videos
ayesha@ayesha-VMware-Virtual-Platform:~$ cd Books
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ cat > result.comp.
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
Chemistry Computer Maths Physics result.comp.
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-rw-rw-r-- 1 ayesha ayesha   0 Sep  8 19:44 result.comp.
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Removing the “write” permission:

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ chmod u-w result.comp.
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-r--r--r-- 1 ayesha ayesha   0 Sep  8 19:55 result.comp.
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Creating file: stock

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ cat > stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
Chemistry Computer Maths Physics result.comp. stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-r--r--r-- 1 ayesha ayesha   0 Sep  8 19:55 result.comp.
-rw-rw-r-- 1 ayesha ayesha   0 Sep  8 20:05 stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Group and other get execute access for file stock.

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ chmod go+x stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-r--r--r-- 1 ayesha ayesha    0 Sep  8 19:55 result.comp.
-rw-rwxr-x 1 ayesha ayesha    0 Sep  8 20:05 stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Creating file: myfile

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ cat > myfile
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls
Chemistry Computer Maths myfile Physics result.comp. stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
-rw-rw-r-- 1 ayesha ayesha    0 Sep  8 20:09 myfile
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-r--r--r-- 1 ayesha ayesha    0 Sep  8 19:55 result.comp.
-rw-rwxr-x 1 ayesha ayesha    0 Sep  8 20:05 stock
```

Set group access for reading(r) and execute(x) of myfile.

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ chmod g+rx myfile
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ ls -l
total 16
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Chemistry
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Computer
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 19:36 Maths
-rw-rwxr-- 1 ayesha ayesha    0 Sep  8 20:09 myfile
drwxrwxr-x 3 ayesha ayesha 4096 Sep  8 19:26 Physics
-r--rw-r-- 1 ayesha ayesha    0 Sep  8 19:55 result.comp.
-rw-rwxr-x 1 ayesha ayesha    0 Sep  8 20:05 stock
ayesha@ayesha-VMware-Virtual-Platform:~/Books$
```

Task 4: Create a directory called lab4 and create three files say quiz, report and viva inside the directory

Now try to set the following rights;

-rw- r-- r- quiz

-rw- -w- r- - report

-rwx rwx r-x viva

Also try to change access permission of lab4 directory as well and see how it affects.

Creating directory “lab4”:

```
ayesha@ayesha-VMware-Virtual-Platform:~/Books$ cd
ayesha@ayesha-VMware-Virtual-Platform:~$ ls
Books Desktop Documents Downloads Music Pictures Public snap Templates Videos
ayesha@ayesha-VMware-Virtual-Platform:~$ mkdir lab4
ayesha@ayesha-VMware-Virtual-Platform:~$ ls
Books Desktop Documents Downloads lab4 Music Pictures Public snap Templates Videos
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Creating file: quiz, report and viva

```
Books Desktop Documents Downloads lab4 Music Pictures Public snap Templates Videos
ayesha@ayesha-VMware-Virtual-Platform:~$ cd lab4
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ cat > quiz
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ cat > report
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ cat > viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ ls
quiz report viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$
```

Default:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ ls -l
total 0
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:21 quiz
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:21 report
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:22 viva
```

Permission: -rw- r-- r- quiz

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ chmod g-w quiz
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ ls -l
total 0
-rw-r--r-- 1 ayesha ayesha 0 Sep  8 20:21 quiz
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:21 report
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:22 viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$
```

Permission: -rw- -w- r- - report

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ chmod g-r report
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ ls -l
total 0
-rw-r--r-- 1 ayesha ayesha 0 Sep  8 20:21 quiz
-rw--w-r-- 1 ayesha ayesha 0 Sep  8 20:21 report
-rw-rw-r-- 1 ayesha ayesha 0 Sep  8 20:22 viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$
```

Permission: -rwx rwx r-x viva

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ chmod +x viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$ ls -l
total 0
-rw-r--r-- 1 ayesha ayesha 0 Sep  8 20:21 quiz
-rw--w-r-- 1 ayesha ayesha 0 Sep  8 20:21 report
-rwxrwxr-x 1 ayesha ayesha 0 Sep  8 20:22 viva
ayesha@ayesha-VMware-Virtual-Platform:~/lab4$
```

Also try to change access permission of **lab4** directory as well and see how it affects.


```
ayesha@ayesha-VMware-Virtual-Platform:~$ ls -l
total 44
drwxrwxr-x 6 ayesha ayesha 4096 Sep  8 20:09 Books
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Desktop
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Documents
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Downloads
drwxrwxr-x 2 ayesha ayesha 4096 Sep  8 20:22 lab4
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Music
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Pictures
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Public
drwx----- 3 ayesha ayesha 4096 Sep  8 18:58 snap
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Templates
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Videos
```

Removing write permission:

```
ayesha@ayesha-VMware-Virtual-Platform:~$ chmod -w lab4
ayesha@ayesha-VMware-Virtual-Platform:~$ ls -l
total 44
drwxrwxr-x 6 ayesha ayesha 4096 Sep  8 20:09 Books
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Desktop
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Documents
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Downloads
dr-xr-xr-x 2 ayesha ayesha 4096 Sep  8 20:22 lab4
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Music
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Pictures
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Public
drwx----- 3 ayesha ayesha 4096 Sep  8 18:58 snap
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Templates
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Videos
```

Giving all permissions:

```
ayesha@ayesha-VMware-Virtual-Platform:~$ chmod 777 lab4
```

```
ayesha@ayesha-VMware-Virtual-Platform:~$ ls -l
```

```
total 44
```

```
drwxrwxr-x 6 ayesha ayesha 4096 Sep  8 20:09 Books
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Desktop
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Documents
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Downloads
drwxrwxrwx 2 ayesha ayesha 4096 Sep  8 20:22 lab4
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Music
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Pictures
drwxr-xr-x 2 ayesha ayesha 4096 Sep  8 18:58 Public
drwx----- 3 ayesha ayesha 4096 Sep  8 18:58 snap
```