

Lab 8: File Permissions

Question 1 | Use symbolic notation

- 1. Long list all the files in directory1.
- 2. Modify the files permissions such that:

Type of file	Owner	Group	Other
Directory	rwX	rw-	r--
Image	rw-	r-X	---
Python	rw-	rw-	---
Text	rwX	rwX	r--

- 3. Long list all the files in directory1

```
student@student-VirtualBox:~/lab8/question1$ ls -l
total 12
drwxrwxr-x 2 student student 4096 Dec 18 11:25 directory
-rw-rw-r-- 1 student student 243 Dec 18 11:25 file.txt
-rw-rw-r-- 1 student student 21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question1$ chmod g=rw,o=r directory/
student@student-VirtualBox:~/lab8/question1$ chmod u=rwx,o=rwx file.txt
student@student-VirtualBox:~/lab8/question1$ chmod o=- program.py
student@student-VirtualBox:~/lab8/question1$ ls -l
total 12
drwxrw-r-- 2 student student 4096 Dec 18 11:25 directory
-rwxrw-rwx 1 student student 243 Dec 18 11:25 file.txt
-rw-rw---- 1 student student 21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question1$
```

Question 2 | Use numeric notation

- 1. Long list all the files in directory2.
- 2. Modify the files permissions such that:

Type of file	Owner	Group	Other
Directory	rwX	rw-	r--
Image	rw-	r-X	---
Python	rw-	rw-	---
Text	rwX	rwX	r--

- 3. Long list all the files in directory2

```

student@student-VirtualBox:~/lab8/question1$ cd ../question2/
student@student-VirtualBox:~/lab8/question2$ ls -l
total 12
drwxrwxr-x 2 student student 4096 Dec 18 11:25 directory
-rw-rw-r-- 1 student student  215 Dec 18 11:25 file.txt
-rw-rw-r-- 1 student student   21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question2$ chmod 764 directory/
student@student-VirtualBox:~/lab8/question2$ chmod 774 file.txt
student@student-VirtualBox:~/lab8/question2$ chmod 660 program.py
student@student-VirtualBox:~/lab8/question2$ ls -l
total 12
drwxrw-r-- 2 student student 4096 Dec 18 11:25 directory
-rwxrwxr-- 1 student student  215 Dec 18 11:25 file.txt
-rw-rw---- 1 student student   21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question2$

```

Question 3 | Use numeric notation

1. Long list all the files in directory3
2. Modify the files permission such that:

Type of file	Owner	Group	Other
Directory	r-x	rw-	--X
Image	rwX	rwX	rwX
Python	rwX	r-X	rw-
Text	r-X	rw-	---

3. Long list all the files in directory3

```

student@student-VirtualBox:~/lab8/question2$ cd ../question3/
student@student-VirtualBox:~/lab8/question3$ ls -l
total 12
drwxrwxr-x 2 student student 4096 Dec 18 11:25 directory
-rw-rw-r-- 1 student student  158 Dec 18 11:25 file.txt
-rw-rw-r-- 1 student student   21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question3$ chmod 561 directory/
student@student-VirtualBox:~/lab8/question3$ chmod 560 file.txt
student@student-VirtualBox:~/lab8/question3$ chmod 756 program.py
student@student-VirtualBox:~/lab8/question3$ ls -l
total 12
dr-xrw---x 2 student student 4096 Dec 18 11:25 directory
-r-xrw---- 1 student student  158 Dec 18 11:25 file.txt
-rwxr-xrw- 1 student student   21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question3$

```

Question 4 | Use symbolic notation

1. Long list all the files in directory4

2. Modify the files permission such that:

Type of file	Owner	Group	Other
Directory	--X	-wX	rw-
Image	rwX	r-X	---
Python	-w-	--X	r--
Text	r-X	r-W	-wX

3. Long list all the files in directory4

```

student@student-VirtualBox:~/lab8/question4$ ls -l
total 12
d--x-wxrw- 2 student student 4096 Dec 18 11:25 directory
-r--r----- 1 student student 106 Dec 18 11:25 file.txt
-----r-- 1 student student 21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question4$ chmod u=x,g=wx,o=rw directory/
student@student-VirtualBox:~/lab8/question4$ chmod u=rx,g=rw,o=wx file.txt
student@student-VirtualBox:~/lab8/question4$ chmod u=w,g=x,o=r program.py
student@student-VirtualBox:~/lab8/question4$ ls -l
total 12
d--x-wxrw- 2 student student 4096 Dec 18 11:25 directory
-r-xrw--wx 1 student student 106 Dec 18 11:25 file.txt
--w---xr-- 1 student student 21 Dec 18 11:25 program.py
student@student-VirtualBox:~/lab8/question4$

```