

## Question1

```
nova@nova-VirtualBox:~/lab8/question1$ chmod g=rw,o=r directory/
nova@nova-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rwxrwxr-- 1 nova nova 210 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question1$ chmod u=rw,g=rx,o-rwx img.png
nova@nova-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rwxrwxr-- 1 nova nova 210 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question1$ chmod u+g=rw,o-rwx program.py
nova@nova-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rwxrwxr-- 1 nova nova 210 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question1$ chmod u+g=rwx,o=r file.txt
nova@nova-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rwxrwxr-- 1 nova nova 210 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question1$
```

## Question2

```
nova@nova-VirtualBox:~/lab8/question2$ chmod 764 directory/
nova@nova-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 162 Dec 19 17:28 file.txt
-rw-rw-r-- 1 nova nova 246610 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question2$ chmod 650 img.png
nova@nova-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 162 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246610 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question2$ chmod 660 program.py
nova@nova-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 162 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246610 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question2$
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```
nova@nova-VirtualBox:~/lab8/question2$ chmod 774 file.txt
nova@nova-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 nova nova 4096 Dec 18 19:11 directory
-rwxrwxr-- 1 nova nova 162 Dec 19 17:28 file.txt
-rw-r-x--- 1 nova nova 246610 Dec 19 17:28 img.png
-rw-rw---- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question2$
```

### Question3

```
nova@nova-VirtualBox: ~/lab8/question3
drwxrwxr-x 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 193 Dec 19 17:28 file.txt
-rw-rw-r-- 1 nova nova 246605 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question3$ chmod 561 directory/
nova@nova-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 193 Dec 19 17:28 file.txt
-rw-rw-r-- 1 nova nova 246605 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question3$ chmod 777 img.png
nova@nova-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 193 Dec 19 17:28 file.txt
-rwxrwxrwx 1 nova nova 246605 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question3$ chmod 756 program.py
nova@nova-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 nova nova 4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova 193 Dec 19 17:28 file.txt
-rwxrwxrwx 1 nova nova 246605 Dec 19 17:28 img.png
nova@nova-VirtualBox:~/lab8/question3$ chmod 560 file.txt
nova@nova-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 nova nova 4096 Dec 18 19:11 directory
-r-xrw--- 1 nova nova 193 Dec 19 17:28 file.txt
-rwxrwxrwx 1 nova nova 246605 Dec 19 17:28 img.png
-rwxr-xrw- 1 nova nova 21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question3$ cd ../question4
```

### Question 4

```
nova@nova-VirtualBox:~/lab8/question4$ chmod u=x,g=wx,o=rw directory/
nova@nova-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 nova nova    4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova    234 Dec 19 17:28 file.txt
-rw-rw-r-- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova    21 Dec 19 17:28 program.py

nova@nova-VirtualBox:~/lab8/question4$ chmod u=rwx,g=rx,o-rwx img.png
nova@nova-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 nova nova    4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova    234 Dec 19 17:28 file.txt
-rwxr-x--- 1 nova nova 246608 Dec 19 17:28 img.png
-rw-rw-r-- 1 nova nova    21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question4$ chmod u=w,g=x,o=r program.py
nova@nova-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 nova nova    4096 Dec 18 19:11 directory
-rw-rw-r-- 1 nova nova    234 Dec 19 17:28 file.txt
-rwxr-x--- 1 nova nova 246608 Dec 19 17:28 img.png
--w---xr-- 1 nova nova    21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question4$ chmod u=rx,g=rw,o=wx file.txt
nova@nova-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 nova nova    4096 Dec 18 19:11 directory
-r-xrw--wx 1 nova nova    234 Dec 19 17:28 file.txt
-rwxr-x--- 1 nova nova 246608 Dec 19 17:28 img.png
--w---xr-- 1 nova nova    21 Dec 19 17:28 program.py
nova@nova-VirtualBox:~/lab8/question4$
```