## Lab 8: File Permissions

Question 1 | Use symbolic notation

```
anand@cis106vm: ~/lab8/question4
                                                                      Q
 F
      anand@cis106vm: ~/lab8/question3
                                                 anand@cis106vm: ~/lab8/question4
anand@cis106vm:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 anand anand
                             4096 Dec 5 22:07 directory
-rw-rw-r-- 1 anand anand
                              272 Dec 5 22:07 file.txt
-rw-rw-r-- 1 anand anand 246609 Dec 5 22:07 img.png
-rw-r-x--- 1 anand anand
                               21 Dec 5 22:07 program.py
anand@cis106vm:~/lab8/question1$ chmod u=rwx,g=rw,o=r directory/
anand@cis106vm:~/lab8/question1$ chmod u=rw,g=rx,o=--- img.png
anand@cis106vm:~/lab8/question1$ chmod u=rwx,g=rwx,o=r file.txt
anand@cis106vm:~/lab8/question1$_chmod_u=rw,g=rw,o=--- program.py
anand@cis106vm:~/lab8/question1$ is - L
total 256
drwxrw-r-- 2 anand anand
                             4096 Dec
                                       5 22:07 directory
-rwxrwxr-- 1 anand anand
                              272 Dec 5 22:07 file.txt
-rw-r-x--- 1 anand anand 246609 Dec
                                      5 22:07 img.png
-rw-rw---- 1 anand anand
                               21 Dec
                                       5 22:07 program.py
anand@cis106vm:~/lab8/question1$_cd ../question2/
anand@cis106vm:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 anand anand
                             4096 Dec
                                       5 22:07 directory
-rw-rw-r-- 1 anand anand
                              195 Dec
                                       5 22:07 file.txt
-rw-rw-r-- 1 anand anand 246606 Dec
                                        5 22:07 img.png
-rw-rw-r-- 1 anand anand
                               21 Dec
                                        5 22:07 program.py
```

Question 2 | Use numeric notation

```
H.
                             anand@cis106vm: ~/lab8/question4
                                                                     Q
      anand@cis106vm: ~/lab8/question3
                                                anand@cis106vm: ~/lab8/question4
anand@cis106vm:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 anand anand
                            4096 Dec 5 22:07 directory
                                      5 22:07 file.txt
-rw-rw-r-- 1 anand anand
                             195 Dec
-rw-rw-r-- 1 anand anand 246606 Dec
                                      5 22:07 img.png
                              21 Dec 5 22:07 program.py
-rw-rw-r-- 1 anand anand
anand@cis106vm:~/lab8/question2$ chmod 764 directory/
anand@cis106vm:~/lab8/question2$ chmod 650 img.png
anand@cis106vm:~/lab8/question2$ chmod 660 program.py
anand@cis106vm:~/lab8/question2$ chmod 774 file.txt
anand@cis106vm:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 anand anand
                            4096 Dec
                                       5 22:07 directory
-rwxrwxr-- 1 anand anand
                                      5 22:07 file.txt
                             195 Dec
-rw-r-x--- 1 anand anand 246606 Dec
                                     5 22:07 img.png
-rw-rw---- 1 anand anand
                              21 Dec 5 22:07 program.py
anand@cis106vm:~/lab8/question2$_cd_../question3/
anand@cis106vm:~/lab8/question3$ ls -l
total 256
drwxrw-r-- 2 anand anand
                            4096 Dec
                                       5 22:07 directory
-rwxrwxr-- 1 anand anand
                             143 Dec
                                       5 22:07 file.txt
-rw-r-x--- 1 anand anand 246609 Dec
                                      5 22:07 img.png
-rw-rw---- 1 anand anand
                              21 Dec
                                       5 22:07 program.py
```

Ouestion 3 | Use numeric notation

```
F
                           anand@cis106vm: ~/lab8/question4
                                                                 Q
      anand@cis106vm: ~/lab8/question3
                                              anand@cis106vm: ~/lab8/question4
anand@cis106vm:~/lab8/question3$ ls -l
total 256
drwxrw-r-- 2 anand anand
                           4096 Dec 5 22:07 directory
-rwxrwxr-- 1 anand anand 143 Dec 5 22:07 file.txt
-rw-r-x--- 1 anand anand 246609 Dec 5 22:07 img.png
                             21 Dec 5 22:07 program.pv
-rw-rw---- 1 anand anand
anand@cis106vm:~/lab8/question3$ chmod 561 directory/
anand@cis106vm:~/lab8/question3$ chmod 777 img.png
anand@cis106vm:~/lab8/question3$ chmod 756 program.py
anand@cis106vm:~/lab8/question3$ chmod 560 file.txt
anand@cis106vm:~/lab8/question35 ls -l
total 256
dr-xrw---x 2 anand anand
                           4096 Dec 5 22:07 directory
-r-xrw---- 1 anand anand
                           143 Dec 5 22:07 file.txt
-rwxrwxrwx 1 anand anand 246609 Dec 5 22:07 tmg.png
-rwxr-xrw- 1 anand anand
                             21 Dec 5 22:07 program.py
anand@cis106vm:~/lab8/question3$ cd ../question4/
anand@cis106vm:~/lab8/question4$ ls -l
total 256
drwxrwxr-x 2 anand anand
                           4096 Dec 5 22:07 directory
-rw-rw-r-- 1 anand anand
                            228 Dec 5 22:07 file.txt
-rw-rw-r-- 1 anand anand 246608 Dec 5 22:07 img.png
-rw-rw-r-- 1 anand anand
                             21 Dec 5 22:07 program.py
anand@cis106vm:~/lab8/question4$ chmod u=x,g=wx,o=rw directory/
anand@cis106vm:~/lab8/question4$ chmod u=rwx,g=rx,o=--- img.png
anand@cis106vm:~/lab8/question4$ chmod u=w,g=x,o=r program.py
anand@cis106vm:~/lab8/question4$ chmod u=rx,g=rw,o=wx file.txt
anand@cis106vm:~/lab8/question4$ ls -l
total 256
```

Question 4 | Use symbolic notation

