

6)

a) 1

```
24mca39@mcaserver:~/nsal$ nano testfile2
24mca39@mcaserver:~/nsal$ nano testfile3
24mca39@mcaserver:~/nsal$ chmod o+r testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

a) 2

```
24mca39@mcaserver:~/nsal$ chmod u-w testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-r--rw-r-- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

a) 3

```
24mca39@mcaserver:~/nsal$ chmod g=x testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-r----x-r-- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

a) 4

```
24mca39@mcaserver:~/nsal$ chmod u+r,o-r,g=r testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-r--r----- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

a) 5

```
24mca39@mcaserver:~/nsal$ chmod a+rw testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-rw-rw-rw- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-r-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

b) 1

```
24mca39@mcaserver:~/nsal$ chmod 666 testfile3
24mca39@mcaserver:~/nsal$ ls -l
total 0
-rw-rw-rw- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rw-rw-rw- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

b) 2

```
24mca39@mcaserver:~/nsal$ chmod 754 testfile3
24mca39@mcaserver:~/nsal$ ls -l
total 0
-rw-rw-rw- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

c)

```
24mca39@mcaserver:~/nsal$ chmod 754 testfile2
24mca39@mcaserver:~/nsal$ ls -l
total 0
-rwxr-xr-- 1 24mca39 24mca39 0 May  6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39 0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

d)

```
24mca39@mcaserver:~/nsal$ mkdir dir1
24mca39@mcaserver:~/nsal$ find dir1 -type d -exec chmod 664 {} \;
24mca39@mcaserver:~/nsal$ ls -l
total 4
drw-rw-r-- 2 24mca39 24mca39 4096 May  6 10:10 dir1
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

7)

```
24mca39@mcaserver:~/nsal$ mkdir dir2
24mca39@mcaserver:~/nsal$ chown -R student:student dir2
24mca39@mcaserver:~/nsal$
```

8)

```
24mca39@mcaserver:~/nsal$ pwd
/home/2024/24mca39/nsal
24mca39@mcaserver:~/nsal$
```

9) i.

```
24mca39@mcaserver:~/nsal$ ls
dir1 dir2 testfile2 testfile3
24mca39@mcaserver:~/nsal$
```

ii.

```
24mca39@mcaserver:~/nsal$ ls -lt
total 8
drwxrwxr-x 2 24mca39 24mca39 4096 May  6 10:12 dir2
drw-rw-r-- 2 24mca39 24mca39 4096 May  6 10:10 dir1
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:58 testfile3
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:57 testfile2
24mca39@mcaserver:~/nsal$
```

iii.

```
24mca39@mcaserver:~/nsal$ ls -ls
total 8
drw-rw-r-- 2 24mca39 24mca39 4096 May  6 10:10 dir1
drwxrwxr-x 2 24mca39 24mca39 4096 May  6 10:12 dir2
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39  0 May  6 09:58 testfile3
24mca39@mcaserver:~/nsal$
```

iv.

```
24mca39@mcaserver:~/nsal$ ls -r
testfile3 testfile2 dir2 dir1
```

v.

```
24mca39@mcaserver:~/nsal$ ls -lsr
total 8
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:58 testfile3
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:57 testfile2
drwxrwxr-x 2 24mca39 24mca39 4096 May 6 10:12 dir2
drw-rw-r-- 2 24mca39 24mca39 4096 May 6 10:10 dir1
24mca39@mcaserver:~/nsal$
```

vi.

```
24mca39@mcaserver:~/nsal$ ls -lh
total 8.0K
drw-rw-r-- 2 24mca39 24mca39 4.0K May 6 10:10 dir1
drwxrwxr-x 2 24mca39 24mca39 4.0K May 6 10:12 dir2
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:58 testfile3
```

10)

a.

```
24mca39@mcaserver:~/nsal$ ls > lsoutput
24mca39@mcaserver:~/nsal$ cat lsoutput
dir1
dir2
lsoutput
testfile2
testfile3
```

b.

```
24mca39@mcaserver:~/nsal$ ls -l >> lsoutput
24mca39@mcaserver:~/nsal$ cat lsoutput
dir1
dir2
lsoutput
testfile2
testfile3
total 12
drw-rw-r-- 2 24mca39 24mca39 4096 May 6 10:10 dir1
drwxrwxr-x 2 24mca39 24mca39 4096 May 6 10:12 dir2
-rw-rw-r-- 1 24mca39 24mca39 39 May 6 10:22 lsoutput
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:57 testfile2
-rwxr-xr-- 1 24mca39 24mca39 0 May 6 09:58 testfile3
```

11)

```
24mca39@mcaserver:~/nsal$ ls -l|less
```

```
total 12
drw-rw-r--  2 24mca39 24mca39 4096 May  6 10:10 dir1
drwxrwxr-x  2 24mca39 24mca39 4096 May  6 10:12 dir2
-rw-rw-r--  1 24mca39 24mca39  322 May  6 10:23 lsoutput
-rwxr-xr--  1 24mca39 24mca39    0 May  6 09:57 testfile2
-rwxr-xr--  1 24mca39 24mca39    0 May  6 09:58 testfile3
(END)
```

12)

a.

```
24mca39@mcaserver:~/nsal$ echo "Hello,">file1
24mca39@mcaserver:~/nsal$ cat file1
Hello,
```

b.

```
24mca39@mcaserver:~/nsal$ nano file2
24mca39@mcaserver:~/nsal$ echo ", Greetings!!" > file2
24mca39@mcaserver:~/nsal$ cat file2
, Greetings!!
```

c.

```
24mca39@mcaserver:~/nsal$ cat file1 && echo -n "Nandana" && cat file2
Hello,
Nandana, Greetings!!
```

13)

```
24mca39@mcaserver:~/nsal$ cp file1 newfile
24mca39@mcaserver:~/nsal$ cp -n file1 newfile
24mca39@mcaserver:~/nsal$ cp -i file1 newfile
cp: overwrite 'newfile'? yes
24mca39@mcaserver:~/nsal$ cp -u file1 newfile
24mca39@mcaserver:~/nsal$ cp -f file1 newfile
24mca39@mcaserver:~/nsal$ ln file1 newfile
ln: failed to create hard link 'newfile': File exists
24mca39@mcaserver:~/nsal$ ln file1 newfile1
24mca39@mcaserver:~/nsal$ cp -R dir1 dir5
24mca39@mcaserver:~/nsal$ ls
dir1  dir5  file2  newfile  testfile2
dir2  file1  lsoutput  newfile1  testfile3
```