

## 18 5001 196 S.VISHAKAN CSE-C

### Task 1

```
gml13:~ cse13$ cat>cse.txt
```

```
Hello
```

```
^Z
```

```
[1]+  Stopped                  cat > cse.txt
```

```
gml13:~ cse13$ ls -l cse.txt
```

```
-rw-r--r-- 1 cse13 staff 6 Jul 18 08:24 cse.txt
```

```
gml13:~ cse13$ chmod a-w cse.txt
```

```
gml13:~ cse13$ ls -l cse.txt
```

```
-r--r--r-- 1 cse13 staff 6 Jul 18 08:24 cse.txt
```

```
gml13:~ cse13$ cat>cse.txt
```

```
-bash: cse.txt: Permission denied
```

**//FILE CANNOT BE ACCESSED**

```
gml13:~ cse13$ mkdir dept
```

```
gml13:~ cse13$ ls -l
```

```
total 16
```

```
drwx-----@ 3 cse13 staff 102 Jul 11 08:21 Applications
```

```
drwx-----+ 6 cse13 staff 204 Jul 4 09:53 Desktop
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Documents
```

```
drwx-----+ 10 cse13 staff 340 Jul 18 08:22 Downloads
```

```
drwx-----@ 58 cse13 staff 1972 Jul 11 08:25 Library
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Movies
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Music
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Pictures
```

```
drwxr-xr-x+ 4 cse13 staff 136 Jul 4 08:19 Public
```

```
drwxr-xr-x 3 cse13 staff 102 Jul 4 09:43 assignment
```

```
-r--r--r-- 1 cse13 staff 6 Jul 18 08:24 cse.txt
```

```
drwxr-xr-x 2 cse13 staff 68 Jul 18 08:27 dept
```

```
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:39 letters
```

```
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:25 myname
```

```
-rw-r--r-- 1 cse13 staff 33 Jul 4 08:51 poem.txt
```

```
drwxr-xr-x 5 cse13 staff 170 Jul 4 09:42 reports
```

```
gml13:~ cse13$ chmod a-x dept
```

```
gml13:~ cse13$ ls -l
```

```
total 16
```

```
drwx-----@ 3 cse13 staff 102 Jul 11 08:21 Applications
```

```
drwx-----+ 6 cse13 staff 204 Jul 4 09:53 Desktop
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Documents
```

```
drwx-----+ 10 cse13 staff 340 Jul 18 08:22 Downloads
```

```
drwx-----@ 58 cse13 staff 1972 Jul 11 08:25 Library
```

```
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Movies
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Music
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Pictures
drwxr-xr-x+ 4 cse13 staff 136 Jul 4 08:19 Public
drwxr-xr-x 3 cse13 staff 102 Jul 4 09:43 assignment
-r--r--r-- 1 cse13 staff 6 Jul 18 08:24 cse.txt
drw-r--r-- 2 cse13 staff 68 Jul 18 08:27 dept
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:39 letters
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:25 myname
-rw-r--r-- 1 cse13 staff 33 Jul 4 08:51 poem.txt
drwxr-xr-x 5 cse13 staff 170 Jul 4 09:42 reports
```

```
gml13:~ cse13$ cd dept
-bash: cd: dept: Permission denied
```

**//FILE CANNOT BE ACCESSED**

## Task 2

```
gml13:~ cse13$ umask 077
```

**//UMASK VALUE IS CALCULATED AS THE COMPLEMENT OF THE DESIRED PERMISSION**  
**//VALUE( i.e 777-700 = 077)**

```
gml13:~ cse13$ mkdir SSN
```

```
gml13:~ cse13$ ls -l
total 8
drwx-----@ 3 cse13 staff 102 Jul 11 08:21 Applications
drwx-----+ 6 cse13 staff 204 Jul 18 09:06 Desktop
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Documents
drwx-----+ 11 cse13 staff 374 Jul 18 08:43 Downloads
drwx-----@ 58 cse13 staff 1972 Jul 11 08:25 Library
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Movies
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Music
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Pictures
drwxr-xr-x+ 4 cse13 staff 136 Jul 4 08:19 Public
drwx----- 2 cse13 staff 68 Jul 18 09:06 SSN
drwxr-xr-x 3 cse13 staff 102 Jul 4 09:43 assignment
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:39 letters
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:25 myname
-rw-r--r-- 1 cse13 staff 33 Jul 4 08:51 poem.txt
drwxr-xr-x 5 cse13 staff 170 Jul 4 09:42 reports
----rw-rw- 1 cse13 staff 0 Jul 18 08:36 sample.txt
```

**//THE DEFAULT PERMISSION OF SSN is 700 (Leading 7 indicates RWX for the User, the**  
**//zeroes indicate no permissions for others)**

```
gml13:~ cse13$ chmod u=rwx SSN
```

```
gml13:~ cse13$ ls -l
```

```
total 8
drwx-----@ 3 cse13 staff 102 Jul 11 08:21 Applications
drwx-----+ 6 cse13 staff 204 Jul 18 09:06 Desktop
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Documents
drwx-----+ 11 cse13 staff 374 Jul 18 08:43 Downloads
drwx-----@ 58 cse13 staff 1972 Jul 11 08:25 Library
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Movies
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Music
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Pictures
drwxr-xr-x+ 4 cse13 staff 136 Jul 4 08:19 Public
drwx----- 2 cse13 staff 68 Jul 18 09:06 SSN
drwxr-xr-x 3 cse13 staff 102 Jul 4 09:43 assignment
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:39 letters
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:25 myname
-rw-r--r-- 1 cse13 staff 33 Jul 4 08:51 poem.txt
drwxr-xr-x 5 cse13 staff 170 Jul 4 09:42 reports
---rw-rw- 1 cse13 staff 0 Jul 18 08:36 sample.txt
```

```
gml13:~ cse13$ cat>sample.txt
Hello
^Z
[9]+ Stopped          cat > sample.txt
```

```
gml13:~ cse13$ ls -l
total 16
drwx-----@ 3 cse13 staff 102 Jul 11 08:21 Applications
drwx-----+ 6 cse13 staff 204 Jul 18 09:06 Desktop
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Documents
drwx-----+ 11 cse13 staff 374 Jul 18 08:43 Downloads
drwx-----@ 58 cse13 staff 1972 Jul 11 08:25 Library
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Movies
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Music
drwx-----+ 3 cse13 staff 102 Jul 4 08:19 Pictures
drwxr-xr-x+ 4 cse13 staff 136 Jul 4 08:19 Public
drwx----- 2 cse13 staff 68 Jul 18 09:06 SSN
drwxr-xr-x 3 cse13 staff 102 Jul 4 09:43 assignment
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:39 letters
drwxr-xr-x 4 cse13 staff 136 Jul 4 09:25 myname
-rw-r--r-- 1 cse13 staff 33 Jul 4 08:51 poem.txt
drwxr-xr-x 5 cse13 staff 170 Jul 4 09:42 reports
-rw----- 1 cse13 staff 6 Jul 18 09:07 sample.txt
```

**//THE PERMISSION OF SAMPLE.TXT is 100 (1 stands for Read and Write for User)**

```
gml13:~ cse13$ umask 222
```

**//UMASK VALUE IS 222 FOR WRITE PROTECTED SINCE UMASK VALUE IS DECIDED BY THE**

**//COMPLEMENT OF THE REQUIRED VALUE ( 777 - 555 where 555 gives write permissions)**

```
gml13:~ cse13$ cd Desktop
```

```
gml13:Desktop cse13$ mkdir -p SSN1 SSN2 SSN3
```

```
gml13:Desktop cse13$ chmod u=rwx SSN1 SSN2 SSN3
```

```
gml13:Desktop cse13$ cat>SSN1/college1.txt
```

```
Hello college1^Z
```

```
[10]+ Stopped cat > SSN1/college1.txt
```

```
gml13:Desktop cse13$ cat>SSN2/college2.txt
```

```
Hello college2^Z
```

```
[11]+ Stopped cat > SSN2/college2.txt
```

```
gml13:Desktop cse13$ cat>SSN3/college3.txt
```

```
Hello college3^Z
```

```
[12]+ Stopped cat > SSN3/college3.txt
```

```
gml13:Desktop cse13$ ls -l
```

```
total 376
```

```
-rw-r--r--@ 1 cse13 staff 8649 Jul 4 09:34 Assignment1.rtf
```

```
-rw-r--r--@ 1 cse13 staff 178688 Jul 4 09:53 Assignment2-Exercise1.rtf
```

```
drwxr-xr-x 3 cse13 staff 102 Jul 18 09:16 SSN1
```

```
drwxr-xr-x 3 cse13 staff 102 Jul 18 09:16 SSN2
```

```
drwxr-xr-x 3 cse13 staff 102 Jul 18 09:16 SSN3
```

```
gml13:Desktop cse13$ ls -l SSN1 SSN2 SSN3
```

```
SSN1:
```

```
total 0
```

```
-r--r--r-- 1 cse13 staff 0 Jul 18 09:16 college1.txt
```

```
SSN2:
```

```
total 0
```

```
-r--r--r-- 1 cse13 staff 0 Jul 18 09:16 college2.txt
```

```
SSN3:
```

```
total 0
```

```
-r--r--r-- 1 cse13 staff 0 Jul 18 09:16 college3.txt
```

```
gml13:Desktop cse13$ chmod -R 777 SSN1 SSN2 SSN3
```

### //GIVING ALL PERMISSIONS TO ALL USERS TO THE DIRECTORIES

```
gml13:Desktop cse13$ ls -l SSN1 SSN2 SSN3
```

```
SSN1:
```

```
total 0
```

```
-rwxrwxrwx 1 cse13 staff 0 Jul 18 09:16 college1.txt
```

```
SSN2:
```

```
total 0
```

```
-rwxrwxrwx 1 cse13 staff 0 Jul 18 09:16 college2.txt
```

```
SSN3:
```

```
total 0
```

-rwxrwxrwx 1 cse13 staff 0 Jul 18 09:16 college3.txt

## Task 3

gml13:~ cse13\$ vi sample.txt

gml13:~ cse13\$ cat sample.txt

This is sample file created using VI editor

Press i to go into insert mode

Press Escape dd to delete an entire line

Esc-to terminate

Esc :w - To save the file and kept the file open

Esc :wq - To Save and quit the file

a - can be used to append a character

A - can be used to append at the end of line

Escape x - will delete the character at the cursor

Escape :q quit the file without saving

Insert Commands

i - to insert at the current position

I - to insert in the beginning of line

o - To insert a new line below the current line

O - To insert a new line above the current line

Moving within a file

k - Move cursor up

j - Move cursor down

h - Move cursor left

l - Move cursor right

## LEARNING EXPERIENCE:

Learnt to modify file permissions

Learnt to use umask command in Linux terminal

Learnt some basic commands of the Vi editor

Learnt about the types of file permissions and their octal values

Learnt about the use of giving file permissions(i.e denying and giving access to a user)

Learnt how to change permissions for directories