

ABHISHEK SHARMA

CS THIRD YEAR

SECTION : "I"

ROLL NO.: 01

ENROLLMENT NO.: 12019009001127

OPERATING SYSTEMS LABORATORY

DAY 2

ASSIGNMENT 2

DATE : 26.07.2021

PLATFORM USED : UBUNTU 20.04 LTS

**UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

a) Change the permissions of the file newtext to rw-rw-rw-.

```
abhisheks008@LAPTOP-9RGGUF05:~$ cat >newtext
This is a new file in the Home directory!!
abhisheks008@LAPTOP-9RGGUF05:~$ ls
newtext
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l newtext
-rw-r--r-- 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
abhisheks008@LAPTOP-9RGGUF05:~$ chmod 666 newtext
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l newtext
-rw-rw-rw- 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
```

b) Recreate the file in such a way that only owner can read and write the file newtext.

```
abhisheks008@LAPTOP-9RGGUF05:~$ chmod 600 newtext
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l newtext
-rw----- 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
```

c) Recreate the file in such a way that no one can access the file newtext.

```
abhisheks008@LAPTOP-9RGGUF05:~$ chmod 000 newtext
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l newtext
----- 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
```

d) Recreate the file in such a way that everyone can read, write ,execute the file newtext.

```
abhisheks008@LAPTOP-9RGGUF05:~$ chmod 777 newtext
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l newtext
-rwxrwxrwx 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
```

e) Use command(s) to create a directory in your home directory called KeepOut whose contents can be read only by you.

```
abhisheks008@LAPTOP-9RGGUF05:~$ mkdir KeepOut
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l KeepOut
total 0
abhisheks008@LAPTOP-9RGGUF05:~$ chmod 400 KeepOut
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l KeepOut
total 0
abhisheks008@LAPTOP-9RGGUF05:~$ ls -l
total 0
dr----- 1 abhisheks008 abhisheks008 4096 Jul 22 20:31 KeepOut
-rwxrwxrwx 1 abhisheks008 abhisheks008 43 Jul 22 20:09 newtext
```

f) List all filenames that end with a digit.

```
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ find ./ -type f -name '*[!0-9][0-9]'
./F1
./file1
./file2
./file3
```

g) List all files in the current directory whose second character is a digit.

```
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ ls -d -- ?[0-9]*
F1 f1file f2ile f3ile
```

h) List all filenames starting with 'a' or 'b' or 'm'.

```
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ ls [abm]*
afile bfile mfile
```

i) create Multiple files(d1,d2,d3,d4) with different extension.

```
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ touch d1.cpp d2.py d3.js d4.java
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ ls -lia
total 0
5348024557677732 drwxr-xr-x 1 abhisheks008 abhisheks008 4096 Jul 23 20:47 .
3377699720692777 drwxr-xr-x 1 abhisheks008 abhisheks008 4096 Jul 22 22:47 ..
9851624185176030 -r--r--r-- 1 abhisheks008 abhisheks008 22 Jul 22 22:44 .hidden
7318349394656035 -rwxr--r-- 1 abhisheks008 abhisheks008 25 Jul 22 22:51 F1
22799473113598905 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 afile
2251799813962617 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 bfile
12666373952282026 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:47 d1.cpp
5910974511226742 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:47 d2.py
10696049115307968 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:47 d3.js
7599824371490755 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:47 d4.java
9570149208319167 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 f1file
1688849860541491 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 f2ile
10977524091993149 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 f3ile
41658296553230880 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 22 22:50 file1
36591746972467403 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 22 22:50 file2
4222124650835008 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 22 22:50 file3
1125899907120206 -rw-r--r-- 1 abhisheks008 abhisheks008 0 Jul 23 20:40 mfile
```

j) Set modification time timestamp to 2019,26th July, 11-34.

```
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ touch -d "2019-07-26 11:34" afile
abhisheks008@LAPTOP-9RGGUF05:~/D1/D3$ stat afile
  File: afile
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: 2h/2d  Inode: 22799473113598905  Links: 1
Access: (0644/-rw-r--r--)  Uid: ( 1000/abhisheks008)   Gid: ( 1000/abhisheks008)
Access: 2019-07-26 11:34:00.000000000 +0530
Modify: 2019-07-26 11:34:00.000000000 +0530
Change: 2021-07-23 20:49:11.146517100 +0530
Birth: -
```