Changing File Permission

Relative mode of Manipulating File Permission using chmod command

```
student@student-V520-15IKL:~$ mkdir file_permission
student@student-V520-15IKL:~$ cd file_permission

student@student-V520-15IKL:~/file_permission$ cat > file1.txt
echo "Welcome to CSDEPT"

student@student-V520-15IKL:~/file_permission$ cat file1.txt
echo "Welcome to CSDEPT"

student@student-V520-15IKL:~/file_permission$ ./file1.txt
bash: ./file11.txt: Permission denied

student@student-V520-15IKL:~/file_permission$ ls -lah
total 12K
drwxr-xr-x  2 student student 4.0K Feb 17 16:38 .
drwxr-xr-x 71 student student 4.0K Feb 17 16:37 ..
-rw-r--r--  1 student student   26 Feb 17 16:39 file1.txt

student@student-V520-15IKL:~/file_permission $ chmod ugo+x file1.txt

student@student-V520-15IKL:~/file_permission$ ./file1.txt
Welcome to CSDEPT
```

Absolutee mode of Manipulating File Permission using chmod command

```
student@student-V520-15IKL:~/file_permission$ cat > file2.txt
echo "Welcome to CSDEPT"


student@student-V520-15IKL:~/file_permission$ cat file2.txt
echo "Welcome to CSDEPT"

student@student-V520-15IKL:~/file_permission$  ./file2.txt
bash: ./file2.txt: Permission denied

student@student-V520-15IKL:~/file_permission$ ls -lah
total 16K
drwxr-xr-x  2 student student 4.0K Feb 17 16:42 .
drwxr-xr-x 71 student student 4.0K Feb 17 16:37 ..
-rw-r--r--  1 student student   26 Feb 17 16:39 file11.txt
-rw-r--r--  1 student student   25 Feb 17 16:42 file2.txt

student@student-V520-15IKL:~/file_permission$ chmod 777 file2.txt

student@student-V520-15IKL:~/file_permission$ ls -lah
total 16K
drwxr-xr-x  2 student student 4.0K Feb 17 16:42 .
drwxr-xr-x 71 student student 4.0K Feb 17 16:37 ..
-rw-r--r--  1 student student   26 Feb 17 16:39 file11.txt
-rwxrwxrwx  1 student student   25 Feb 17 16:42 file2.txt

student@student-V520-15IKL:~/file_permission$ ./file2.txt
bash: ./file2.txt: Text file busy
```

Process related command

```
student@student-V520-15IKL:~$ xcalc&
[1] 2316

student@student-V520-15IKL:~$ Warning: cannot convert string "-adobe-
symbol-*-*-*-*-*-*-*-120-*-*-*-*-*-*" to type FontStruct

student@student-V520-15IKL:~$ fg % 2
xcalc

student@student-V520-15IKL:~$ firefox&
[2] 2416

student@student-V520-15IKL:~$
(process:2416) : Glib-CRITICAL **: g_slice_set_config: assertion
sys_page_size == 0' failed

student@student-V520-15IKL:~$ mkdir tpc
student@student-V520-15IKL:~$ cd tpc

student@student-V520-15IKL:~/tpc$ ps
  PID TTY          TIME CMD
 1891 pts/1    00:00:00 bash
 1923 pts/1    00:00:00 cat
 1969 pts/1    00:00:00 cat
 2314 pts/1    00:00:00 ps

student@student-V520-15IKL:~/tpc$ ps -f
UID        PID  PPID  C STIME TTY          TIME CMD
student   1891  1878  0 16:37 pts/1    00:00:00 bash
student   1923  1891  0 16:38 pts/1    00:00:00 cat
student   1969  1891  0 16:42 pts/1    00:00:00 cat
student   2315  1891  0 17:02 pts/1    00:00:00 ps -f

student@student-V520-15IKL:~/tpc$ ps -e
  PID TTY          TIME CMD
    1 ?        00:00:00 systemd
    2 ?        00:00:00 kthreadd
    4 ?        00:00:00 kworker/0:0H
    6 ?        00:00:00 mm_percpu_wq
    7 ?        00:00:00 ksoftirqd/0
    8 ?        00:00:01 rcu_sched
    9 ?        00:00:00 rcu_bh
   10 ?        00:00:00 migration/0
   11 ?        00:00:00 watchdog/0
   12 ?        00:00:00 cpuhp/0
   13 ?        00:00:00 cpuhp/1
   14 ?        00:00:00 watchdog/1
   15 ?        00:00:00 migration/1
   16 ?        00:00:00 ksoftirqd/1
   18 ?        00:00:00 kworker/1:0H
   19 ?        00:00:00 cpuhp/2
   20 ?        00:00:00 watchdog/2
   21 ?        00:00:00 migration/2
   22 ?        00:00:00 ksoftirqd/2
   24 ?        00:00:00 kworker/2:0H
```

```
     25 ?        00:00:00 cpuhp/3
     26 ?        00:00:00 watchdog/3
     27 ?        00:00:00 migration/3
     28 ?        00:00:00 ksoftirqd/3
     30 ?        00:00:00 kworker/3:0H
     31 ?        00:00:00 kdevtmpfs
     32 ?        00:00:00 netns
     33 ?        00:00:00 rcu_tasks_kthre
     34 ?        00:00:00 kauditd
     36 ?        00:00:00 kworker/1:1
     37 ?        00:00:00 khungtaskd
     38 ?        00:00:00 oom_reaper
     39 ?        00:00:00 writeback
     40 ?        00:00:00 kcompactd0
     41 ?        00:00:00 ksmd
     42 ?        00:00:00 khugepaged
     43 ?        00:00:00 crypto
     44 ?        00:00:00 kintegrityd
     45 ?        00:00:00 kblockd
     47 ?        00:00:00 kworker/3:1
     48 ?        00:00:00 ata_sff
     49 ?        00:00:00 md
     50 ?        00:00:00 edac-poller
     51 ?        00:00:00 devfreq_wq
   2026 ?        00:00:00 kworker/u8:0
   2030 ?        00:00:00 kworker/3:2
   2031 ?        00:00:00 kworker/1:0
   2035 ?        00:00:00 kworker/2:1
   2036 ?        00:00:00 kworker/0:1
   2037 ?        00:00:00 kworker/u8:1
   2295 ?        00:00:00 kworker/u8:2
   2296 ?        00:00:00 kworker/3:0
   2305 ?        00:00:00 kworker/2:2
   2307 ?        00:00:00 kworker/1:2
   2311 ?        00:00:00 kworker/0:0
   2316 pts/1    00:00:00 ps

student@student-V520-15IKL:~/tpc$ ps -ef
UID        PID  PPID  C STIME TTY          TIME CMD
root         1     0  0 16:30 ?        00:00:00 /sbin/init splash
root         2     0  0 16:30 ?        00:00:00 [kthreadd]
root         4     2  0 16:30 ?        00:00:00 [kworker/0:0H]
root         6     2  0 16:30 ?        00:00:00 [mm_percpu_wq]
root         7     2  0 16:30 ?        00:00:00 [ksoftirqd/0]
root         8     2  0 16:30 ?        00:00:01 [rcu_sched]
root         9     2  0 16:30 ?        00:00:00 [rcu_bh]
root        10     2  0 16:30 ?        00:00:00 [migration/0]
root        11     2  0 16:30 ?        00:00:00 [watchdog/0]
root        12     2  0 16:30 ?        00:00:00 [cpuhp/0]
root        13     2  0 16:30 ?        00:00:00 [cpuhp/1]
root        14     2  0 16:30 ?        00:00:00 [watchdog/1]
root        15     2  0 16:30 ?        00:00:00 [migration/1]
root        16     2  0 16:30 ?        00:00:00 [ksoftirqd/1]
root        18     2  0 16:30 ?        00:00:00 [kworker/1:0H]
root        19     2  0 16:30 ?        00:00:00 [cpuhp/2]
root        20     2  0 16:30 ?        00:00:00 [watchdog/2]
root        21     2  0 16:30 ?        00:00:00 [migration/2]
root        22     2  0 16:30 ?        00:00:00 [ksoftirqd/2]
```

```
root         24      2  0 16:30 ?        00:00:00 [kworker/2:0H]
root         25      2  0 16:30 ?        00:00:00 [cpuhp/3]
root         26      2  0 16:30 ?        00:00:00 [watchdog/3]
root         27      2  0 16:30 ?        00:00:00 [migration/3]
root         28      2  0 16:30 ?        00:00:00 [ksoftirqd/3]
root         30      2  0 16:30 ?        00:00:00 [kworker/3:0H]
root         31      2  0 16:30 ?        00:00:00 [kdevtmpfs]
root         32      2  0 16:30 ?        00:00:00 [netns]
root         33      2  0 16:30 ?        00:00:00 [rcu_tasks_kthre]
root         34      2  0 16:30 ?        00:00:00 [kauditd]
root         36      2  0 16:30 ?        00:00:00 [kworker/1:1]
root         37      2  0 16:30 ?        00:00:00 [khungtaskd]
root         38      2  0 16:30 ?        00:00:00 [oom_reaper]
root         39      2  0 16:30 ?        00:00:00 [writeback]
root         40      2  0 16:30 ?        00:00:00 [kcompactd0]
root         41      2  0 16:30 ?        00:00:00 [ksmd]
root         42      2  0 16:30 ?        00:00:00 [khugepaged]
root         43      2  0 16:30 ?        00:00:00 [crypto]
root         44      2  0 16:30 ?        00:00:00 [kintegrityd]
root         45      2  0 16:30 ?        00:00:00 [kblockd]
root         47      2  0 16:30 ?        00:00:00 [kworker/3:1]
root         48      2  0 16:30 ?        00:00:00 [ata_sff]
root         49      2  0 16:30 ?        00:00:00 [md]
root         50      2  0 16:30 ?        00:00:00 [edac-poller]
root         51      2  0 16:30 ?        00:00:00 [devfreq_wq]
root         52      2  0 16:30 ?        00:00:00 [watchdogd]
root         55      2  0 16:30 ?        00:00:00 [kswapd0]
root         56      2  0 16:30 ?        00:00:00 [kworker/u9:0]
root         57      2  0 16:30 ?        00:00:00 [ecryptfs-kthrea]
root         99      2  0 16:30 ?        00:00:00 [kthrotld]
root        100      2  0 16:30 ?        00:00:00 [acpi_thermal_pm]
root        104      2  0 16:30 ?        00:00:00 [ipv6_addrconf]
root        113      2  0 16:30 ?        00:00:00 [kstrp]
root        130      2  0 16:30 ?        00:00:00 [charger_manager]
root        178      2  0 16:30 ?        00:00:00 [scsi_eh_0]
root        179      2  0 16:30 ?        00:00:00 [scsi_tmf_0]
root        180      2  0 16:30 ?        00:00:00 [scsi_eh_1]
root        181      2  0 16:30 ?        00:00:00 [scsi_tmf_1]
root        182      2  0 16:30 ?        00:00:00 [scsi_eh_2]
root        183      2  0 16:30 ?        00:00:00 [scsi_tmf_2]
root        184      2  0 16:30 ?        00:00:00 [scsi_eh_3]
root        185      2  0 16:30 ?        00:00:00 [scsi_tmf_3]
root        186      2  0 16:30 ?        00:00:00 [scsi_eh_4]
root        187      2  0 16:30 ?        00:00:00 [scsi_tmf_4]
root        188      2  0 16:30 ?        00:00:00 [scsi_eh_5]
root        189      2  0 16:30 ?        00:00:00 [scsi_tmf_5]
root        192      2  0 16:30 ?        00:00:00 [kworker/u8:5]
root        194      2  0 16:30 ?        00:00:00 [i915/signal:0]
root        195      2  0 16:30 ?        00:00:00 [i915/signal:1]
root        196      2  0 16:30 ?        00:00:00 [i915/signal:2]
root        197      2  0 16:30 ?        00:00:00 [i915/signal:4]
root        201      2  0 16:30 ?        00:00:00 [kworker/1:1H]
root        203      2  0 16:30 ?        00:00:00 [kworker/3:1H]
root        303      2  0 16:30 ?        00:00:00 [jbd2/sda4-8]
root        304      2  0 16:30 ?        00:00:00 [ext4-rsv-conver]
root        319      2  0 16:30 ?        00:00:00 [kworker/2:1H]
root        351      1  0 16:30 ?        00:00:00 /lib/systemd/systemd-
journald
```

```
root          376       1   0 16:30 ?          00:00:00 /sbin/lvmetad -f
root          377       1   0 16:30 ?          00:00:00 /lib/systemd/systemd-
root          672       1   0 16:30 ?          00:00:00 /usr/sbin/cron -f
root         2026       2   0 16:51 ?          00:00:00 [kworker/u8:0]
root         2030       2   0 16:54 ?          00:00:00 [kworker/3:2]
root         2031       2   0 16:54 ?          00:00:00 [kworker/1:0]
root         2035       2   0 16:55 ?          00:00:00 [kworker/2:1]
root         2036       2   0 16:56 ?          00:00:00 [kworker/0:1]
root         2037       2   0 16:56 ?          00:00:00 [kworker/u8:1]
root         2295       2   0 16:59 ?          00:00:00 [kworker/u8:2]
root         2296       2   0 16:59 ?          00:00:00 [kworker/3:0]
root         2305       2   0 17:00 ?          00:00:00 [kworker/2:2]
root         2307       2   0 17:01 ?          00:00:00 [kworker/1:2]
root         2311       2   0 17:01 ?          00:00:00 [kworker/0:0]
student      2319    1891   0 17:03 pts/1      00:00:00 ps -ef


student@student-V520-15IKL:~/tpc$ ps -ef
UID          PID    PPID  C STIME TTY           TIME CMD
root           1       0   0 16:30 ?          00:00:00 /sbin/init splash
root           2       0   0 16:30 ?          00:00:00 [kthreadd]
root           4       2   0 16:30 ?          00:00:00 [kworker/0:0H]
root           6       2   0 16:30 ?          00:00:00 [mm_percpu_wq]
root           7       2   0 16:30 ?          00:00:00 [ksoftirqd/0]
root           8       2   0 16:30 ?          00:00:01 [rcu_sched]
root           9       2   0 16:30 ?          00:00:00 [rcu_bh]
root          10       2   0 16:30 ?          00:00:00 [migration/0]
root          11       2   0 16:30 ?          00:00:00 [watchdog/0]
root          12       2   0 16:30 ?          00:00:00 [cpuhp/0]
root          13       2   0 16:30 ?          00:00:00 [cpuhp/1]
root          14       2   0 16:30 ?          00:00:00 [watchdog/1]
root          15       2   0 16:30 ?          00:00:00 [migration/1]
root          16       2   0 16:30 ?          00:00:00 [ksoftirqd/1]
root          18       2   0 16:30 ?          00:00:00 [kworker/1:0H]
root          19       2   0 16:30 ?          00:00:00 [cpuhp/2]
root          20       2   0 16:30 ?          00:00:00 [watchdog/2]
root          21       2   0 16:30 ?          00:00:00 [migration/2]
root          22       2   0 16:30 ?          00:00:00 [ksoftirqd/2]
root          24       2   0 16:30 ?          00:00:00 [kworker/2:0H]
root          25       2   0 16:30 ?          00:00:00 [cpuhp/3]
root          26       2   0 16:30 ?          00:00:00 [watchdog/3]
root          27       2   0 16:30 ?          00:00:00 [migration/3]
root          28       2   0 16:30 ?          00:00:00 [ksoftirqd/3]
root          30       2   0 16:30 ?          00:00:00 [kworker/3:0H]
root          31       2   0 16:30 ?          00:00:00 [kdevtmpfs]
root          32       2   0 16:30 ?          00:00:00 [netns]
root          33       2   0 16:30 ?          00:00:00 [rcu_tasks_kthre]
root          34       2   0 16:30 ?          00:00:00 [kauditd]
root          36       2   0 16:30 ?          00:00:00 [kworker/1:1]
root          37       2   0 16:30 ?          00:00:00 [khungtaskd]
root          38       2   0 16:30 ?          00:00:00 [oom_reaper]
root          39       2   0 16:30 ?          00:00:00 [writeback]
root          40       2   0 16:30 ?          00:00:00 [kcompactd0]
root          41       2   0 16:30 ?          00:00:00 [ksmd]
root          42       2   0 16:30 ?          00:00:00 [khugepaged]
root          43       2   0 16:30 ?          00:00:00 [crypto]
root          44       2   0 16:30 ?          00:00:00 [kintegrityd]
root          45       2   0 16:30 ?          00:00:00 [kblockd]
```

```
root           47     2   0 16:30 ?        00:00:00 [kworker/3:1]
root           48     2   0 16:30 ?        00:00:00 [ata_sff]
root           49     2   0 16:30 ?        00:00:00 [md]
root           50     2   0 16:30 ?        00:00:00 [edac-poller]
root           51     2   0 16:30 ?        00:00:00 [devfreq_wq]
root           52     2   0 16:30 ?        00:00:00 [watchdogd]
root           55     2   0 16:30 ?        00:00:00 [kswapd0]
root           56     2   0 16:30 ?        00:00:00 [kworker/u9:0]
root           57     2   0 16:30 ?        00:00:00 [ecryptfs-kthrea]
root           99     2   0 16:30 ?        00:00:00 [kthrotld]
root          100     2   0 16:30 ?        00:00:00 [acpi_thermal_pm]
root          104     2   0 16:30 ?        00:00:00 [ipv6_addrconf]
root          113     2   0 16:30 ?        00:00:00 [kstrp]
root          130     2   0 16:30 ?        00:00:00 [charger_manager]
root          178     2   0 16:30 ?        00:00:00 [scsi_eh_0]
root          179     2   0 16:30 ?        00:00:00 [scsi_tmf_0]
root          180     2   0 16:30 ?        00:00:00 [scsi_eh_1]
root          181     2   0 16:30 ?        00:00:00 [scsi_tmf_1]
root          182     2   0 16:30 ?        00:00:00 [scsi_eh_2]
root          183     2   0 16:30 ?        00:00:00 [scsi_tmf_2]
root          184     2   0 16:30 ?        00:00:00 [scsi_eh_3]
root          185     2   0 16:30 ?        00:00:00 [scsi_tmf_3]
root          186     2   0 16:30 ?        00:00:00 [scsi_eh_4]
root          187     2   0 16:30 ?        00:00:00 [scsi_tmf_4]
root          188     2   0 16:30 ?        00:00:00 [scsi_eh_5]
root          189     2   0 16:30 ?        00:00:00 [scsi_tmf_5]
root          192     2   0 16:30 ?        00:00:00 [kworker/u8:5]
root          194     2   0 16:30 ?        00:00:00 [i915/signal:0]
root          195     2   0 16:30 ?        00:00:00 [i915/signal:1]
root          196     2   0 16:30 ?        00:00:00 [i915/signal:2]
root          197     2   0 16:30 ?        00:00:00 [i915/signal:4]
root          201     2   0 16:30 ?        00:00:00 [kworker/1:1H]
root          203     2   0 16:30 ?        00:00:00 [kworker/3:1H]
```