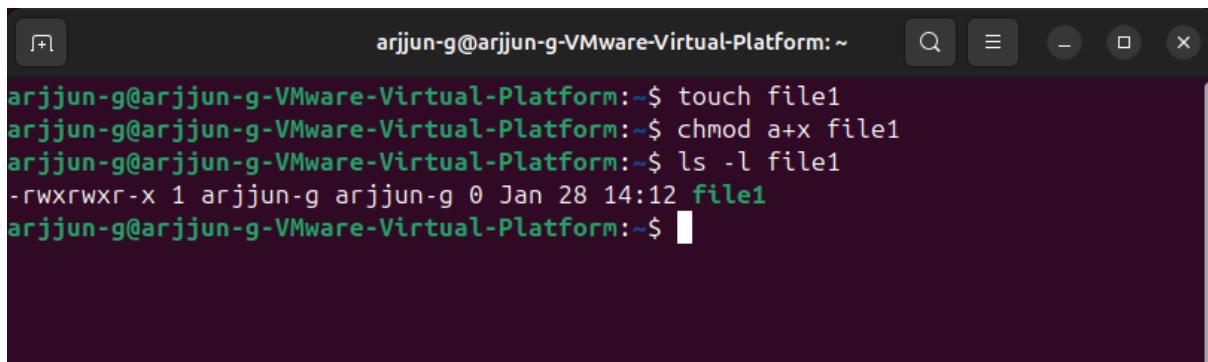
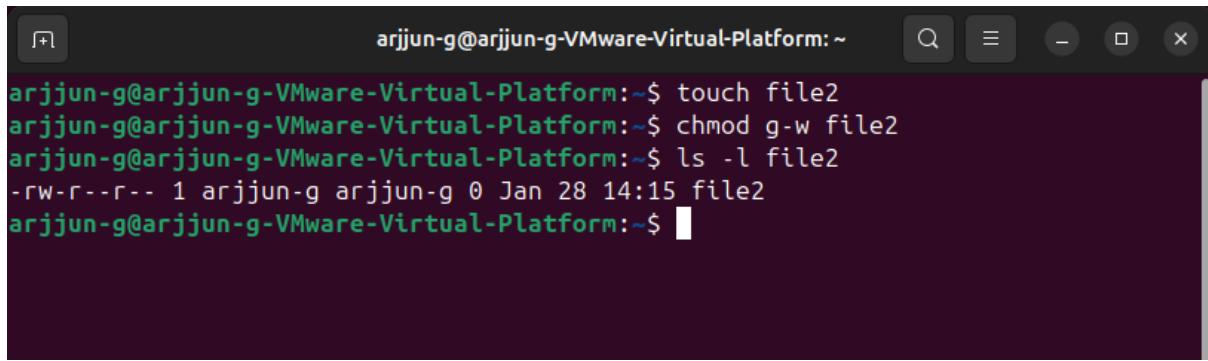


- 1) Create a file and add **executable permission** to all users (user, group, others)



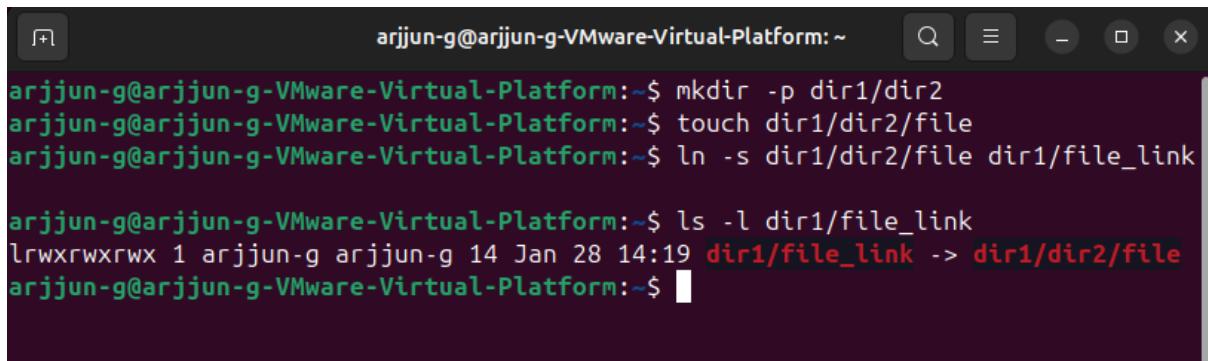
```
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ touch file1
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ chmod a+x file1
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ls -l file1
-rwxrwxr-x 1 arjjun-g arjjun-g 0 Jan 28 14:12 file1
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$
```

- 2) Create a file and remove **write permission only for group**



```
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ touch file2
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ chmod g-w file2
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ls -l file2
-rw-r--r-- 1 arjjun-g arjjun-g 0 Jan 28 14:15 file2
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$
```

- 3) Create a file in dir1/dir2/ and create a **softlink** inside dir1



```
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ mkdir -p dir1/dir2
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ touch dir1/dir2/file
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ln -s dir1/dir2/file dir1/file_link

arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ls -l dir1/file_link
lrwxrwxrwx 1 arjjun-g arjjun-g 14 Jan 28 14:19 dir1/file_link -> dir1/dir2/file
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$
```

4) Use ps with options to display all active processes

```
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START  TIME COMMAND
root      1  0.2  0.3  23012 14248 ?        Ss   14:08  0:01 /sbin/init sp
root      2  0.0  0.0     0     0 ?        S    14:08  0:00 [kthreadd]
root      3  0.0  0.0     0     0 ?        S    14:08  0:00 [pool_workque
root      4  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-rc
root      5  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-sy
root      6  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-kv
root      7  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-sl
root      8  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-ne
root     10  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/0:0H
root     12  0.0  0.0     0     0 ?        I    14:08  0:00 [kworker/u512
root     13  0.0  0.0     0     0 ?        I<  14:08  0:00 [kworker/R-mm
root     14  0.0  0.0     0     0 ?        I    14:08  0:00 [rcu_tasks_kt
root     15  0.0  0.0     0     0 ?        I    14:08  0:00 [rcu_tasks_ru
root     16  0.0  0.0     0     0 ?        I    14:08  0:00 [rcu_tasks_tr
root     17  0.0  0.0     0     0 ?        S    14:08  0:00 [ksoftirqd/0]
root     18  0.0  0.0     0     0 ?        I    14:08  0:00 [rcu_preempt]
root     19  0.0  0.0     0     0 ?        S    14:08  0:00 [rcu_exp_par_
root     20  0.0  0.0     0     0 ?        S    14:08  0:00 [rcu_exp_gp_k
root     21  0.0  0.0     0     0 ?        S    14:08  0:00 [migration/0]
root     22  0.0  0.0     0     0 ?        S    14:08  0:00 [idle_inject/
root     23  0.0  0.0     0     0 ?        S    14:08  0:00 [cpuhp/0]
root     24  0.0  0.0     0     0 ?        S    14:08  0:00 [cpuhp/1]
```

5) Create 3 files in dir1 and redirect ls output sorted by timestamp to a file

```
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ mkdir -p dir1
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ touch dir1/f1 dir1/f2 dir1/f3
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ ls -lt dir1 > dir1/time_sorted.txt
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$ cat dir1/time_sorted.txt
total 4
-rw-rw-r-- 1 arjjun-g arjjun-g    0 Jan 28 14:26 time_sorted.txt
-rw-rw-r-- 1 arjjun-g arjjun-g    0 Jan 28 14:25 f3
-rw-rw-r-- 1 arjjun-g arjjun-g    0 Jan 28 14:25 f1
-rw-rw-r-- 1 arjjun-g arjjun-g    0 Jan 28 14:25 f2
lrwxrwxrwx 1 arjjun-g arjjun-g 14 Jan 28 14:19 file_link -> dir1/dir2/file
drwxrwxr-x 2 arjjun-g arjjun-g 4096 Jan 28 14:19 dir2
arjjun-g@arjjun-g-VMware-Virtual-Platform:~$
```

This Assignment is done by Arjun G