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## Module 1 Assessment

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

```
boss@boss:~/Documents$ touch file1.sh
boss@boss:~/Documents$ chmod a+x file1.sh
boss@boss:~/Documents$ ls
dir1 dir2 file1.sh Module1.txt test2.sh test.sh
```

- 2) Create a file and remove write permission for group user alone

```
boss@boss:~/Documents$ touch file2.sh
boss@boss:~/Documents$ chmod g-w file2.sh
boss@boss:~/Documents$ ls
dir1 dir2 file1.sh file2.sh Module1.txt test2.sh test.sh
```

- 3) Create a file and add a soft link in a different directory

```
boss@boss:~/Documents$ ~mkdir -p dir1 dir2
bash: ~mkdir: command not found
boss@boss:~/Documents$ mkdir -p dir1 dir2
boss@boss:~/Documents$ touch dir2/file.txt
boss@boss:~/Documents$ ln -s ../dir2/file.txt dir1/file_link.txt
boss@boss:~/Documents$ ls -l dir1
total 0
lrwxrwxrwx 1 boss boss 16 Feb 9 13:07 file_link.txt -> ../dir2/file.txt
```

- 4) Use ps command with options to display all active processes

```

boss@boss:~/Documents$ ps -ef
UID      PID    PPID   C STIME TTY          TIME CMD
root      1      0  0 12:52 ?        00:00:01 /sbin/init splash
root      2      0  0 12:52 ?        00:00:00 [kthreadd]
root      3      2  0 12:52 ?        00:00:00 [pool_workqueue_release]
root      4      2  0 12:52 ?        00:00:00 [kworker/R-kvfree_rcu_reclai
root      5      2  0 12:52 ?        00:00:00 [kworker/R-rcu_gp]
root      6      2  0 12:52 ?        00:00:00 [kworker/R-sync_wq]
root      7      2  0 12:52 ?        00:00:00 [kworker/R-slub_flushwq]
root      8      2  0 12:52 ?        00:00:00 [kworker/R-netns]
root      9      2  0 12:52 ?        00:00:00 [kworker/0:0-events]
root     11      2  0 12:52 ?        00:00:00 [kworker/0:0H-events_highpri
root     12      2  0 12:52 ?        00:00:05 [kworker/u32:0-gfx_0.0.0]
root     13      2  0 12:52 ?        00:00:00 [kworker/R-mm_percpu_wq]
root     14      2  0 12:52 ?        00:00:00 [rcu_tasks_kthread]
root     15      2  0 12:52 ?        00:00:00 [rcu_tasks_rude_kthread]
root     16      2  0 12:52 ?        00:00:00 [rcu_tasks_trace_kthread]
root     17      2  0 12:52 ?        00:00:00 [ksoftirqd/0]
root     18      2  0 12:52 ?        00:00:01 [rcu_preempt]
root     19      2  0 12:52 ?        00:00:00 [rcu_exp_par_gp_kthread_work
root     20      2  0 12:52 ?        00:00:00 [rcu_exp_gp_kthread_worker]
root     21      2  0 12:52 ?        00:00:00 [migration/0]
root     22      2  0 12:52 ?        00:00:00 [idle_inject/0]
root     23      2  0 12:52 ?        00:00:00 [cpuhp/0]
root     24      2  0 12:52 ?        00:00:00 [cpuhp/2]
root     25      2  0 12:52 ?        00:00:00 [idle_inject/2]
root     26      2  0 12:52 ?        00:00:00 [migration/2]
root     27      2  0 12:52 ?        00:00:00 [ksoftirqd/2]
root     29      2  0 12:52 ?        00:00:00 [kworker/2:0H-events_highpri
root     30      2  0 12:52 ?        00:00:00 [cpuhp/4]
root     31      2  0 12:52 ?        00:00:00 [idle_inject/4]
root     32      2  0 12:52 ?        00:00:00 [migration/4]

```

5) Create 3 files in a directory and redirect sorted output (by timestamp) to a file

```

boss@boss:~/Documents$ mkdir testdir
boss@boss:~/Documents$ cd testdir
boss@boss:~/Documents/testdir$ touch f1.txt
boss@boss:~/Documents/testdir$ sleep 1
boss@boss:~/Documents/testdir$ touch f2.txt
boss@boss:~/Documents/testdir$ sleep 1
boss@boss:~/Documents/testdir$ touch f3.txt
boss@boss:~/Documents/testdir$ ls -lt > sorted_list.txt
boss@boss:~/Documents/testdir$ cat sorted_list.txt
total 0
-IW-I--r-- 1 boss boss 0 Feb  9 13:27 sorted_list.txt
-IW-I--r-- 1 boss boss 0 Feb  9 13:26 f3.txt
-IW-I--r-- 1 boss boss 0 Feb  9 13:26 f2.txt
-IW-I--r-- 1 boss boss 0 Feb  9 13:26 f1.txt

```

