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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
-rw-r--r-- 1 boss boss 0 Feb  9 13:27 sorted_list.txt
-rw-r--r-- 1 boss boss 0 Feb  9 13:26 f3.txt
-rw-r--r-- 1 boss boss 0 Feb  9 13:26 f2.txt
-rw-r--r-- 1 boss boss 0 Feb  9 13:26 f1.txt

```

