Assignment – Memory Management

- 1) Setup additional swap space in the system to solve low memory issue. The swap which you added should be available post reboot.
- 2) Find out the number of process is in run queue and blocking queue.

Solutions:

```
1)swapon --show
sudo fallocate -l 1G /swapfile (adding 1G of swap file)
sudo chmod 600 /swapfile (setting rw permissions)
```

sudo mkswap /swapfile (converting swapfile into swap space)

Verify the space: swapon --show

Making swap space permanent:

2)vmstat

```
ıbuntu@ip-172-31-22-172:~$ vmstat
             --memorv-----
                              ---swap-- ----io---- -system-- -----cpu--
rocs
      swpd free
                  buff cache
                                          bί
                                               bo
                                                       cs us sy id wa st gu
                                si
                                   50
                                                    in
           71520 86556 534056
                                                         0 0 0 100 0 0 0
                                0
                                     0
                                           6
```

Vmstat |awk {\$1 \$2} first first 2 column displaying running and block

```
ubuntu@ip-172-31-22-172:~$ vmstat | awk '{print $1, $2}'
procs -----memory-----
r b
1 0
ubuntu@ip-172-31-22-172:~$ ■
```