Assignment – Memory Management

1) Setup additional swap space in the system to solve low memory issue. The swap

```
Step 1:- sudo fallocate -l 1G/swapfile ls -l /
```

Sudo chmod 700/swapfile

```
drwxr-xr-x 2 root root 4096 Aug 1 08:35 srv
-rwx----- 1 root root 1073741824 Oct 9 11:52 swapfile
```

Step 2:- sudo mkswap /swapfile

Step 3:- sudo swapon /swapfile

Note:- to check the swap use

free / sudo swapon --show

```
ubuntu@ip-172-31-31-163:/$ free
total used free shared buff/cache available
Mem: 980396 419876 170888 900 545344 560520
Swap: 1048572 0 1048572
ubuntu@ip-172-31-31-163:/$
```

which you added should be available post reboot.

```
Step 1 :- sudo nano /etc/fstab
```

Addd this content to fstab

/swapfile none swap sw 0 0 (save and exit)

```
LABEL=UEFI /boot/efi vfat umask=0077 0 1 /swapfile none swap sw 0 0
```

2) Find out the number of process is in run queue and blocking queue.

Ans -Vmstat 1 5