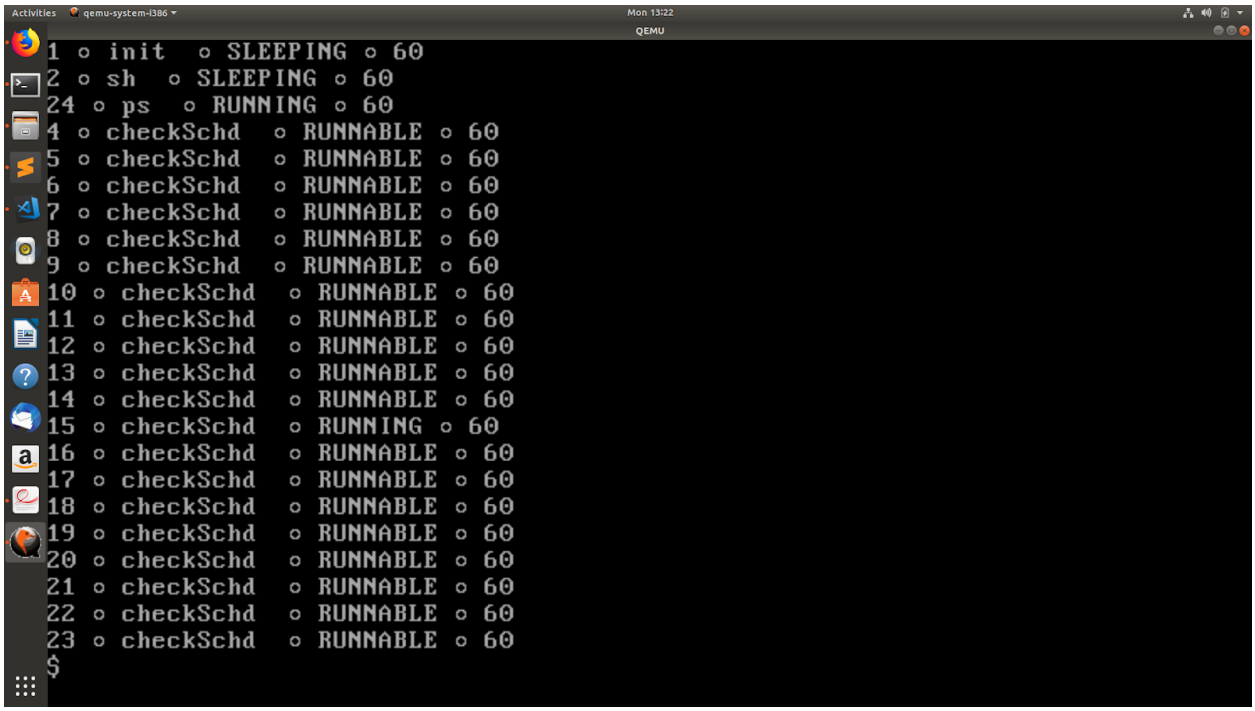
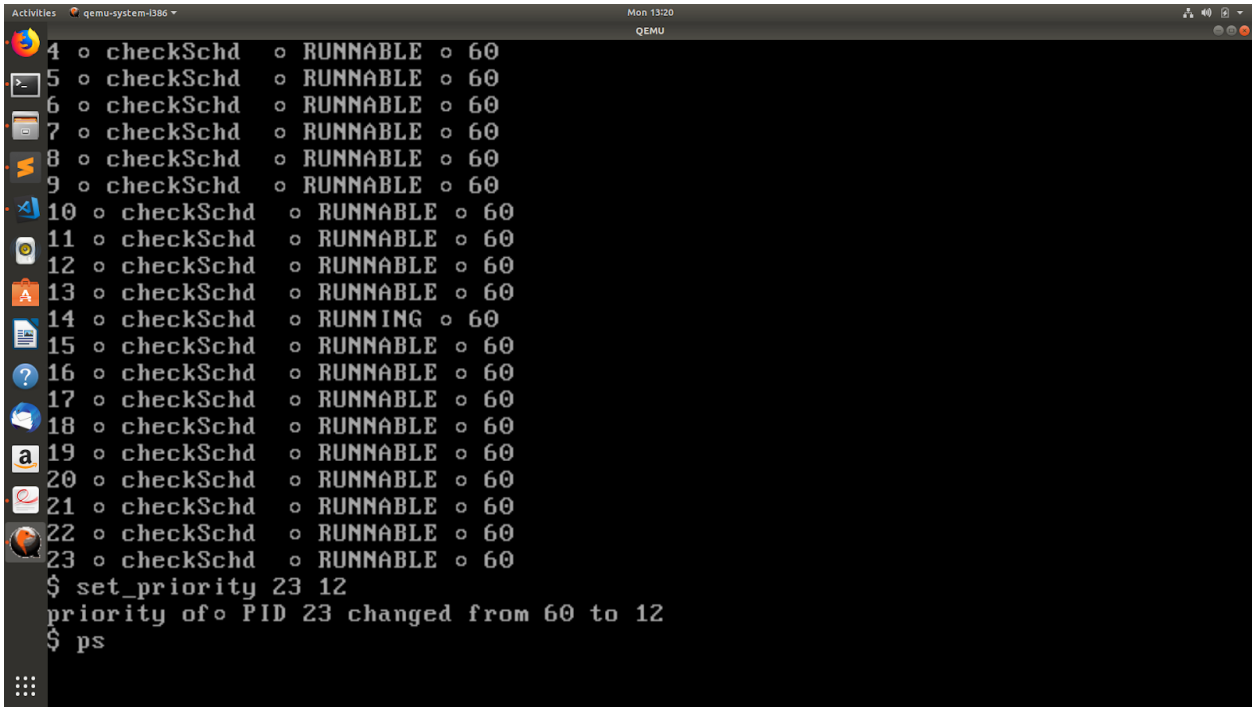
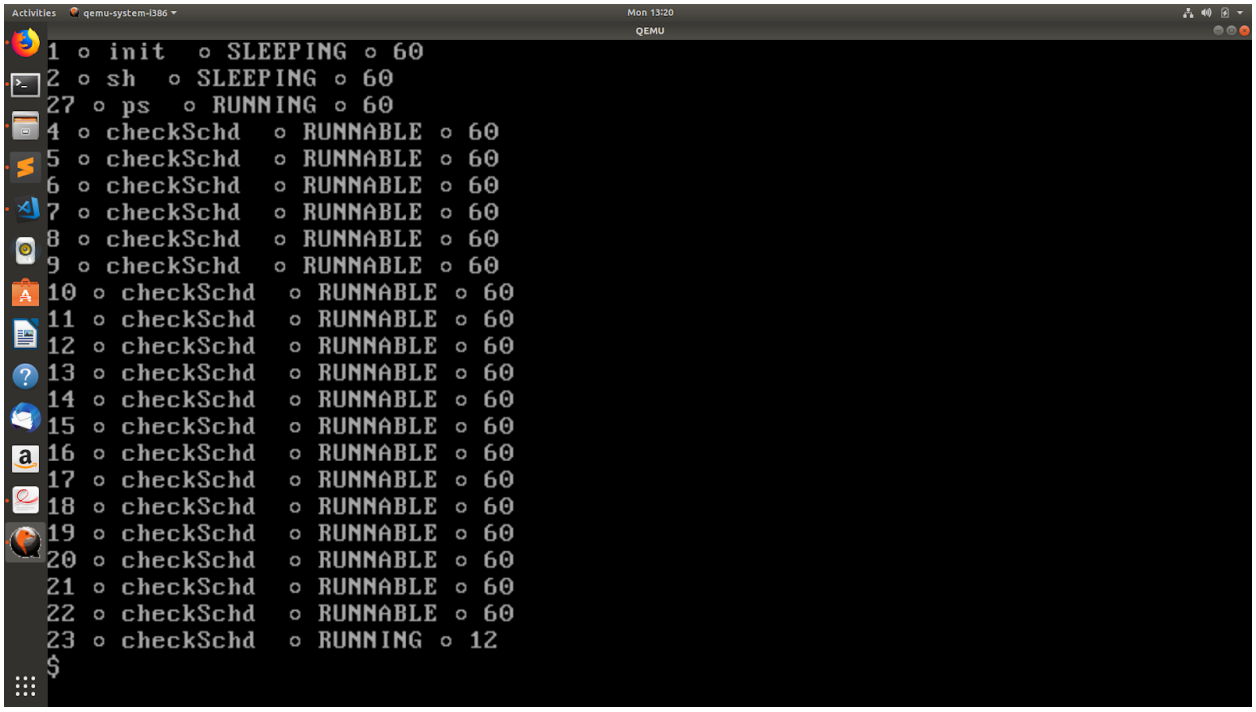
Report Assignment 5

Priority Based Scheduler

- It ensures the process having high priority is selected first , instead of process which comes first as in case of round robin approach
- Test Program create 20 different Processes with same priority.Now on changing priority of the process with pid=23 from 60 to 12 , it becomes the process with highest priority and is selected to run .

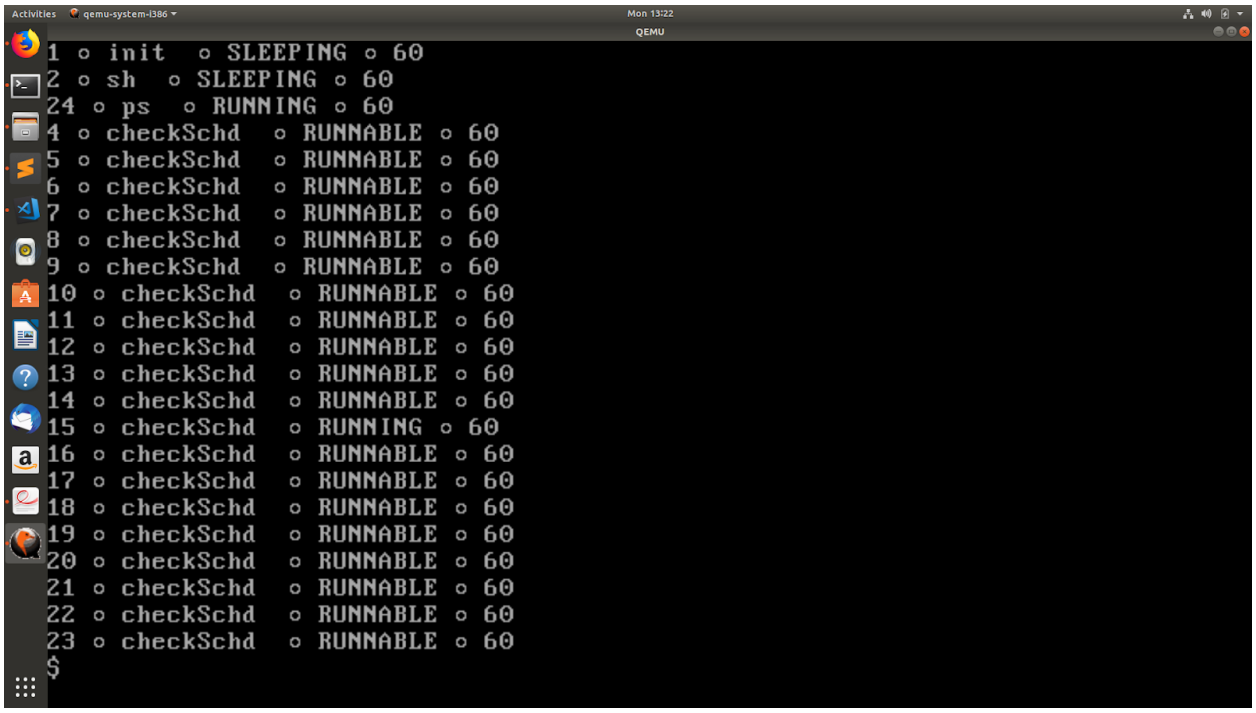


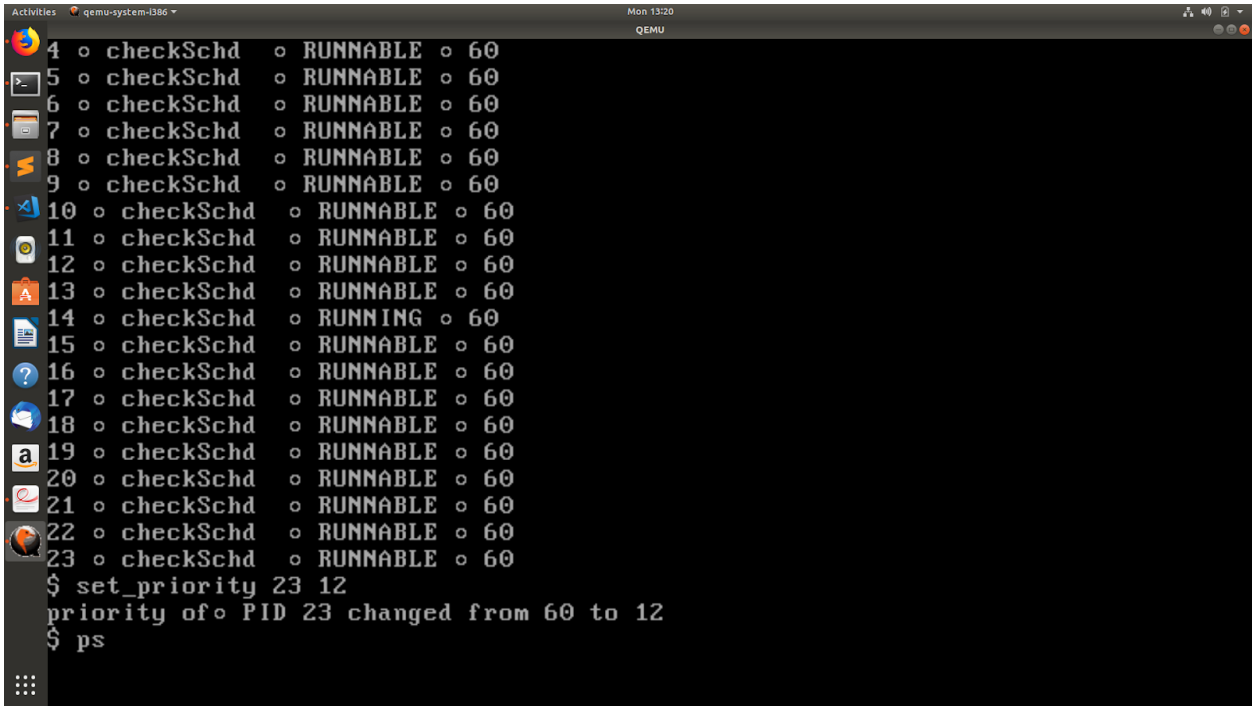

Activities
qemu-system-i386
Mon 13:20
QEMU
4 o checkSchd o RUNNABLE o 60
5 o checkSchd o RUNNABLE o 60
6 o checkSchd o RUNNABLE o 60
7 o checkSchd o RUNNABLE o 60
8 o checkSchd o RUNNABLE o 60
9 o checkSchd o RUNNABLE o 60
10 o checkSchd o RUNNABLE o 60
11 o checkSchd o RUNNABLE o 60
12 o checkSchd o RUNNABLE o 60
13 o checkSchd o RUNNABLE o 60
14 o checkSchd o RUNNING o 60
15 o checkSchd o RUNNABLE o 60
16 o checkSchd o RUNNABLE o 60
17 o checkSchd o RUNNABLE o 60
18 o checkSchd o RUNNABLE o 60
19 o checkSchd o RUNNABLE o 60
20 o checkSchd o RUNNABLE o 60
21 o checkSchd o RUNNABLE o 60
22 o checkSchd o RUNNABLE o 60
23 o checkSchd o RUNNABLE o 60
$ set_priority 23 12
priority of o PID 23 changed from 60 to 12
$ ps

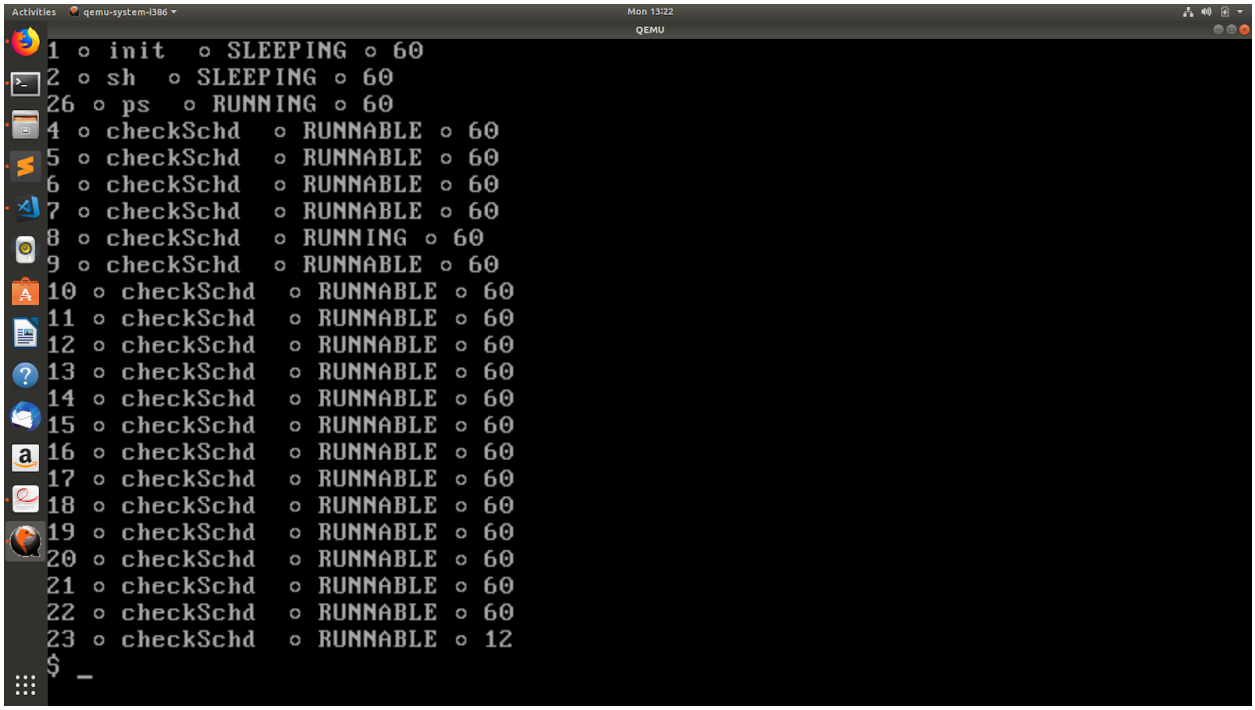

Activities
qemu-system-i386
Mon 13:20
QEMU
1 o init o SLEEPING o 60
2 o sh o SLEEPING o 60
27 o ps o RUNNING o 60
4 o checkSchd o RUNNABLE o 60
5 o checkSchd o RUNNABLE o 60
6 o checkSchd o RUNNABLE o 60
7 o checkSchd o RUNNABLE o 60
8 o checkSchd o RUNNABLE o 60
9 o checkSchd o RUNNABLE o 60
10 o checkSchd o RUNNABLE o 60
11 o checkSchd o RUNNABLE o 60
12 o checkSchd o RUNNABLE o 60
13 o checkSchd o RUNNABLE o 60
14 o checkSchd o RUNNABLE o 60
15 o checkSchd o RUNNABLE o 60
16 o checkSchd o RUNNABLE o 60
17 o checkSchd o RUNNABLE o 60
18 o checkSchd o RUNNABLE o 60
19 o checkSchd o RUNNABLE o 60
20 o checkSchd o RUNNABLE o 60
21 o checkSchd o RUNNABLE o 60
22 o checkSchd o RUNNABLE o 60
23 o checkSchd o RUNNING o 12
$

Round Robin Scheduler

- The processes are scheduled on FCFS basis with each process assigned a time quantum to run . This sometimes causes higher priority process to wait for the lower ones to complete themselves.
- Test Program create 20 different Processes with same priority.Now on changing priority of the process with pid=23 from 60 to 12 ,it becomes the process with highest priority . Even then it is still in RUNNABLE state as scheduler uses round robin approach.




Activities
qemu-system-i386
Mon 13:20
QEMU
4 o checkSchd o RUNNABLE o 60
5 o checkSchd o RUNNABLE o 60
6 o checkSchd o RUNNABLE o 60
7 o checkSchd o RUNNABLE o 60
8 o checkSchd o RUNNABLE o 60
9 o checkSchd o RUNNABLE o 60
10 o checkSchd o RUNNABLE o 60
11 o checkSchd o RUNNABLE o 60
12 o checkSchd o RUNNABLE o 60
13 o checkSchd o RUNNABLE o 60
14 o checkSchd o RUNNING o 60
15 o checkSchd o RUNNABLE o 60
16 o checkSchd o RUNNABLE o 60
17 o checkSchd o RUNNABLE o 60
18 o checkSchd o RUNNABLE o 60
19 o checkSchd o RUNNABLE o 60
20 o checkSchd o RUNNABLE o 60
21 o checkSchd o RUNNABLE o 60
22 o checkSchd o RUNNABLE o 60
23 o checkSchd o RUNNABLE o 60
$ set_priority 23 12
priority of o PID 23 changed from 60 to 12
$ ps


Activities
qemu-system-i386
Mon 13:22
QEMU
1 o init o SLEEPING o 60
2 o sh o SLEEPING o 60
26 o ps o RUNNING o 60
4 o checkSchd o RUNNABLE o 60
5 o checkSchd o RUNNABLE o 60
6 o checkSchd o RUNNABLE o 60
7 o checkSchd o RUNNABLE o 60
8 o checkSchd o RUNNING o 60
9 o checkSchd o RUNNABLE o 60
10 o checkSchd o RUNNABLE o 60
11 o checkSchd o RUNNABLE o 60
12 o checkSchd o RUNNABLE o 60
13 o checkSchd o RUNNABLE o 60
14 o checkSchd o RUNNABLE o 60
15 o checkSchd o RUNNABLE o 60
16 o checkSchd o RUNNABLE o 60
17 o checkSchd o RUNNABLE o 60
18 o checkSchd o RUNNABLE o 60
19 o checkSchd o RUNNABLE o 60
20 o checkSchd o RUNNABLE o 60
21 o checkSchd o RUNNABLE o 60
22 o checkSchd o RUNNABLE o 60
23 o checkSchd o RUNNABLE o 12
$ _