## **Question 3:**

In this Question I changed a process policy and priority using the system call sched\_setscheduler() we will give little explenation about this. There are serveral policies and for each policy we have range of priority values that can be accepted.

- Valid priority range for SCHED\_OTHER: 0-0
- Valid priority range for SCHED FIFO: 1-99
- Valid priority range for SCHED\_RR: 1-99
- Valid priority range for SCHED\_IDLE: 0-0
- Valid priority range for SCHED\_DEADLINE: 0-0
- Valid priority range for SCHED\_BATCH: 0-0

Now, lets see that the policy and priority has really changed.

As we can see from the screen shot above, when running the program we used sudo because in this program we change scheduler and priority of process which means that we need permission.

We used the command chrt -p <pid> to get real – time scheduling attributes of out program pid. At first before we used the system call sched\_setscheduler() we can see the the scheduler policy id : SCHED\_OTHER and the priority is 0.

After we changed the policy and priority we can see that the policy has been changed to SCHED\_FIFO( The value of SCHED\_FIFO in linux is 1) and the priority has been changed to 40.