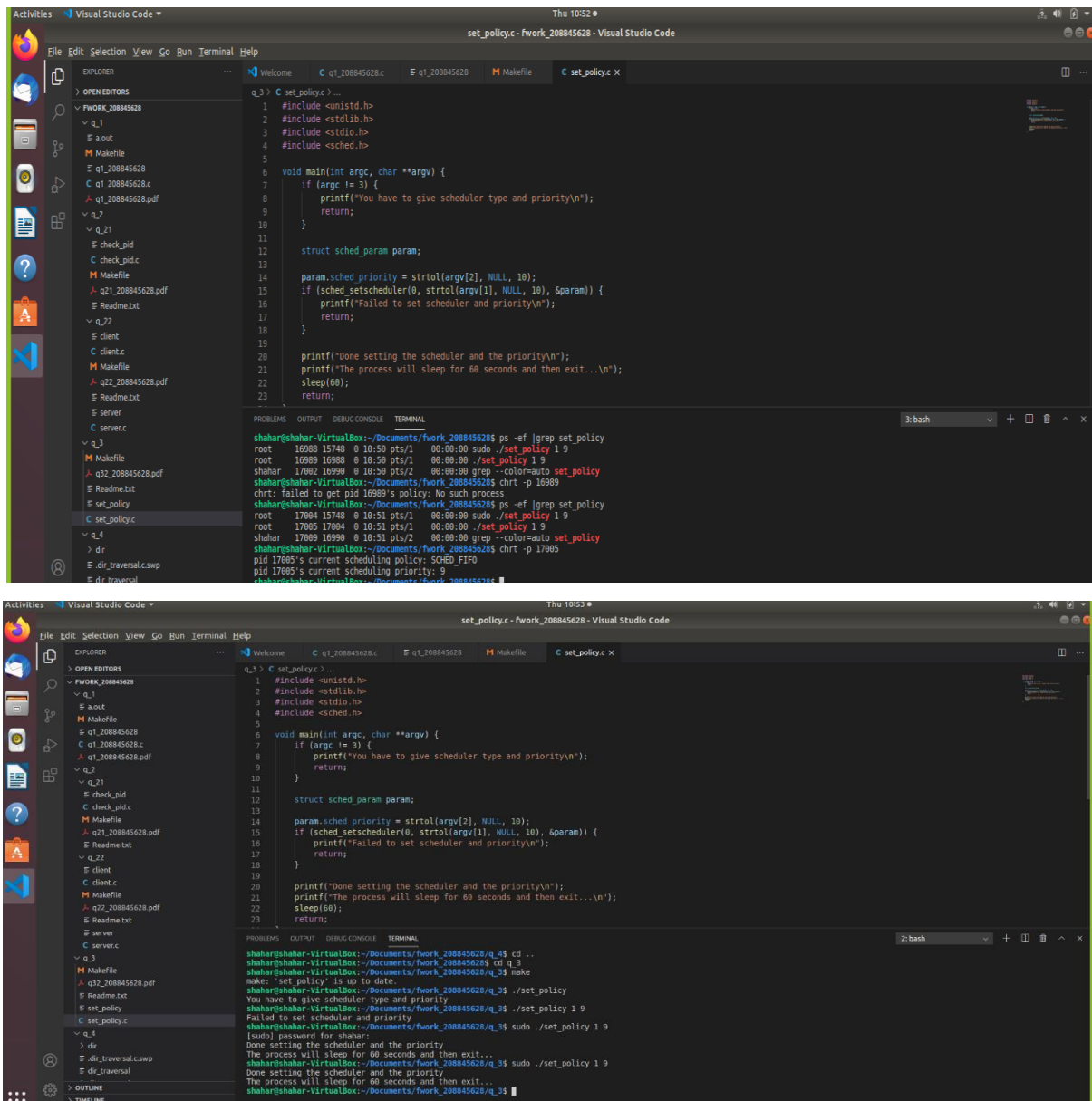


Question 3:



```
q3 > C set_policy.c ...
1 #include <unistd.h>
2 #include <stdlib.h>
3 #include <stdio.h>
4 #include <sched.h>
5
6 void main(int argc, char **argv) {
7     if (argc != 3) {
8         printf("You have to give scheduler type and priority\n");
9         return;
10    }
11
12    struct sched_param param;
13
14    param.sched_priority = strtoul(argv[2], NULL, 10);
15    if (sched_setscheduler(0, strtoul(argv[1], NULL, 10), &param)) {
16        printf("Failed to set scheduler and priority\n");
17        return;
18    }
19
20    printf("Done setting the scheduler and the priority\n");
21    printf("The process will sleep for 60 seconds and then exit...\n");
22    sleep(60);
23    return;
24}
```

```
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$ ps -ef |grep set_policy
root      16988 15748  0 10:50 pts/1    00:00:00 sudo ./set_policy 1 9
root      16989 16988  0 10:50 pts/1    00:00:00 ./set_policy 1 9
shahar    17002 16990  0 10:50 pts/2    00:00:00 grep --color=auto set_policy
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$ chrt -p 16989
chrt: failed to get pid 16989's policy: No such process
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$ ps -ef |grep set_policy
root      17004 15748  0 10:51 pts/1    00:00:00 sudo ./set_policy 1 9
root      17005 17004  0 10:51 pts/1    00:00:00 ./set_policy 1 9
shahar    17009 16990  0 10:51 pts/2    00:00:00 grep --color=auto set_policy
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$ chrt -p 17005
pid 17005's current scheduling policy: SCHED_FIFO
pid 17005's current scheduling priority: 9
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$
```

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24}
```

```
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_4$ cd ..
shahar@shahar-VirtualBox:~/Documents/fwork_208845628$ cd q_3
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$ make
make: 'set_policy': is up to date.
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$ ./set_policy
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$ ./set_policy 1 9
Failed to set scheduler and priority
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$ sudo ./set_policy 1 9
[sudo] password for shahar:
Done setting the scheduler and the priority
The process will sleep for 60 seconds and then exit...
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$ sudo ./set_policy 1 9
Done setting the scheduler and the priority
The process will sleep for 60 seconds and then exit...
shahar@shahar-VirtualBox:~/Documents/fwork_208845628/q_3$
```

I used `ps -ef |grep` command to get the pid-and then used `chrt` command to make sure there were changes in values.