

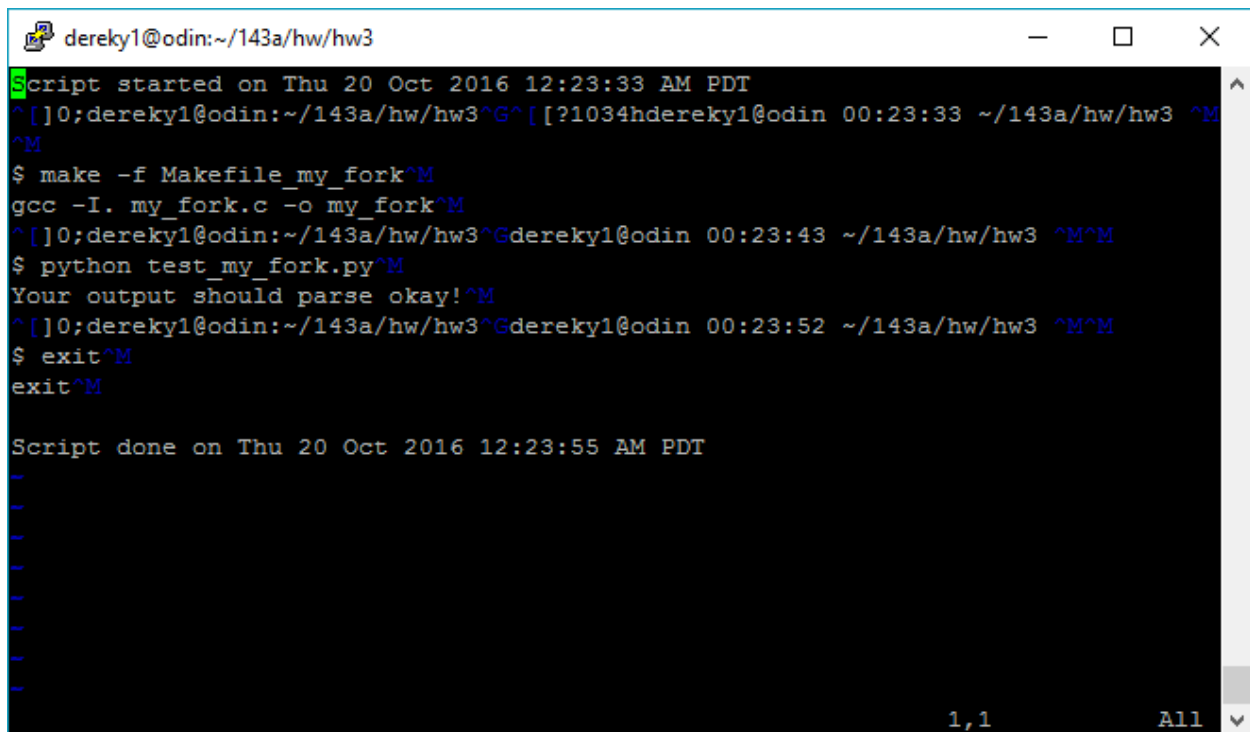
## HW #3

=====start of the write-up=====

### Part1:

Concurrency can be useful because no one thread or process can hog the cpu and not let go of control, such as the dying in the gas station restroom with the keys inside. It also allows processes to run in parallel, such as I/O signals and allowing processes to do work in the background while in another process.

### Part2: my\_fork.c



```
dereky1@odin:~/143a/hw/hw3
Script started on Thu 20 Oct 2016 12:23:33 AM PDT
^[]0;dereky1@odin:~/143a/hw/hw3^G^[[?1034hdereky1@odin 00:23:33 ~/143a/hw/hw3 ^M
^M
$ make -f Makefile_my_fork^M
gcc -I. my_fork.c -o my_fork^M
^[]0;dereky1@odin:~/143a/hw/hw3^Gdereky1@odin 00:23:43 ~/143a/hw/hw3 ^M^M
$ python test_my_fork.py^M
Your output should parse okay!^M
^[]0;dereky1@odin:~/143a/hw/hw3^Gdereky1@odin 00:23:52 ~/143a/hw/hw3 ^M^M
$ exit^M
exit^M

Script done on Thu 20 Oct 2016 12:23:55 AM PDT
~
~
~
~
~
~
~
1,1 All
```

Submitter: dereky1(Yang,Derek)

Part3: my\_shell.c

```
dereky1@odin:~/143a/hw/hw3
Script started on Thu 20 Oct 2016 02:32:16 AM PDT
^[]0;dereky1@odin:~/143a/hw/hw3^G^[[?1034hdereky1@odin 02:32:16 ~/143a/hw/hw3 ^M^M
$ make -f Makf^H^[[Kefile_my_shell^M
gcc -I. my_shell.c -o my_shell^M
^[]0;dereky1@odin:~/143a/hw/hw3^Gdereky1@odin 02:32:24 ~/143a/hw/hw3 ^M^M
$ my_shell^M
$ clear^M
Invalid Command^M
$ echo hello openlab^M
hello openlab^M
$ ps -h^M
 2118 pts/55    S+      0:00 vim my_shell.c^M
 4766 pts/76    Ss      0:00 -bash^M
 6323 pts/76    S+      0:00 script^M
 6325 pts/76    R+      0:00 script^M
 6326 pts/63    Ss      0:00 bash -i^M
 6387 pts/63    S+      0:00 my_shell^M
 6388 pts/63    S+      0:00 my_shell^M
 6400 pts/63    R+      0:00 /bin/ps -h^M
18056 pts/55    Ss      0:00 -bash^M
19144 pts/55    T        0:00 my_shell^M
19147 pts/55    T        0:00 my_shell^M
20066 pts/55    T        0:00 my_shell^M
20095 pts/55    T        0:00 my_shell^M
$ fail^M
Invalid Command^M
$ date -u^M
Thu Oct 20 09:32:45 UTC 2016^M
dereky1@odin:~/143a/hw/hw3^Gdereky1@odin 02:32:51 ~/143a/hw/hw3 ^M^M
$ exit^M
1,1 Top
```

=====end of the write-up=====