

Programming Problems : 3.19

Purpose : Create zombie process that remain in the system for at least 10 seconds.

Input : none

Output : none

OS : Linux

Capabilities :

A process that has terminated, but whose parent has not yet called wait(), is known as a zombie process so instead of calling wait the program call sleep for ten second and at last I kill the parent .

To Show the zombie process I use 'ps -l' and its the one who have 'z' below the S column

I run the program that you have written in the background (using the &)

```
os@debian: ~/Desktop
File Edit View Terminal Help

ps -l
F S  UID  PID  PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
0 S  1000  2431  2429  0  80   0 -  1554 -          pts/0        00:00:00 bash
0 S  1000  2490  2431  0  80   0 -   383 -          pts/0        00:00:00 output
0 Z  1000  2491  2490  0  80   0 -    0 ?          pts/0        00:00:00 ls <defunct>
0 R  1000  2492  2431  0  80   0 -   915 -          pts/0        00:00:00 ps
os@debian:~/Desktop$ gcc -o output 3.19.c
os@debian:~/Desktop$ ./output &
[2] 2504
os@debian:~/Desktop$ 3.19.c                OUTPUTshell
book1.c                outshell
cdrom                  sample.c
cdrom0                 Screenshot-createProcess.c (~/Desktop) - gedit.png
create_2pro-1.c        Screenshot-os@debian: ~/Desktop-1.png
create_2pro.c           Screenshot-os@debian: ~/Desktop-2.png
createProcess.c         Screenshot-os@debian: ~/Desktop.png
createProcessChild      Screenshot-os@debian: ~/.png
createProcessChild.c    shell1.png
createProcessFork.c     shell2.png
exitProcess.c           shell.c
out                     temp.c
OUTcreate_2pro          unix_shell_1.png
output                 Unix_Shell.c
ps -l
F S  UID  PID  PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
0 S  1000  2431  2429  0  80   0 -  1554 -          pts/0        00:00:00 bash
0 S  1000  2490  2431  0  80   0 -   383 -          pts/0        00:00:00 output
0 Z  1000  2491  2490  0  80   0 -    0 ?          pts/0        00:00:00 ls <defunct>
0 S  1000  2504  2431  0  80   0 -   383 -          pts/0        00:00:00 output
0 Z  1000  2505  2504  0  80   0 -    0 ?          pts/0        00:00:00 ls <defunct>
0 R  1000  2506  2431  0  80   0 -   915 -          pts/0        00:00:00 ps
os@debian:~/Desktop$
```

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