

**UBUNTU COMMANDS**

**OPERATING SYSTEMS LABS**



**LAB TASK #09**

*Submitted By*

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## Q No.1:

### C code:

```
#include <unistd.h>
#include <stdio.h>
#include <signal.h>
#include <sys/types.h>
#include <sys/wait.h>
int main()
{
    int pid;
    pid = fork();
    if(pid == 0)
    {
        printf("Child PID = %d\n", pid);
        printf("I am the Child with PID = %d\n", getpid());
        kill(getppid(),SIGTERM);
    }
    else
    {
        wait(NULL);
        printf("Parent of = %d\n", pid);
        printf("I am the Parent with PPID = %d\n",getppid());
    }
}
```

## Output:

```
zaz@zaz-IdeaPad-L340-15IRH-Gaming: ~  
zaz@zaz-IdeaPad-L340-15IRH-Gaming:~$ gedit task8.c  
zaz@zaz-IdeaPad-L340-15IRH-Gaming:~$ gcc task8.c -o task8  
zaz@zaz-IdeaPad-L340-15IRH-Gaming:~$ ./task8  
Child PID = 0  
I am the Child with PID = 10611  
Terminated  
zaz@zaz-IdeaPad-L340-15IRH-Gaming:~$ ps au  
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND  
zaz        1635  0.0  0.0 164348  6552 tty2    Ssl+  06:08   0:00 /usr/lib/gdm3  
root       1637  4.1  1.8 25562844 152020 tty2    Sl+   06:08   6:05 /usr/lib/xorg  
zaz        1689  0.0  0.1 188552 13784 tty2    Sl+   06:08   0:00 /usr/libexec/  
zaz        6515  0.0  0.0 10948  4868 pts/0    Ss    07:06   0:00 bash  
zaz        10613 0.0  0.0 11828  3264 pts/0    R+    08:36   0:00 ps au  
zaz@zaz-IdeaPad-L340-15IRH-Gaming:~$
```

## Explanation:

As u can see above child kills it's parent before it is terminated as a result child is also terminated.

So if a parent dies by defaults it's child dies.