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Subject: Operating system Lab 08

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Semester: 05

Task :01:

DELETE EDITOR

```
[node1] (local) root@192.168.0.13 ~
$ gcc 1.c -o lab1
[node1] (local) root@192.168.0.13 ~
$ ./lab1
Process ID: 3755, Loop: 1Process ID: 3754, Loop: 1
Process ID: 3754, Loop: 2Process ID: 3756, Loop: 1
Process ID: 3756, Loop: 2
Process ID: 3756, Loop: 3

Process ID: 3756, Loop: 4Process ID: 3757, Loop: 1

Process ID: 3757, Loop: 2
Process ID: 3757, Loop: 3
Process ID: 3757, Loop: 4Process ID: 3756, Loop: 5
Process ID: 3757, Loop: 5
Process ID: 3756, Loop: 6Process ID: 3757, Loop: 6
```

Task:2

```
return 0;
}

[node1] (local) root@192.168.0.13 ~

$ gcc 2.c -o lab2
[node1] (local) root@192.168.0.13 ~

$ ./lab2
I am the Parent Process
Parent PID: 5959
Parent's Parent PID: 10
I am the Child Process
Child PID: 5960
Parent PID: 1
[node1] (local) root@192.168.0.13 ~

$ ...
```

Task:3

```
return 0;

[node1] (local) root@192.168.0.13 ~

$ gcc 3.c -o lab3
[node1] (local) root@192.168.0.13 ~

$ ./lab3
Child: My PID is 6652
Child: Exiting now...
Parent: My PID is 6651
Parent: Child has finished. Now I'm done.
[node1] (local) root@192.168.0.13 ~

c
```

Manual code 1:

```
int main(void)
{
    printf("The PID of this process (PID)= %d\n", getpid());
    printf("The PID of Parent process (PPID)= %d\n", getppid());
    return 0;
}
[node2] (local) root@192.168.0.22 ~
$ gcc lab8_e1.c -o lab8_e1
[node2] (local) root@192.168.0.22 ~
$ ./lab8_e1
The PID of this process (PID)= 1945
The PID of Parent process (PPID)= 11
[node2] (local) root@192.168.0.22 ~
```

Manual code 2:

```
int x = 5;
pid_t pid = getpid();
printf("Value of X in PID= %d is %d\n", pid, x);
return 0;
}
[node2] (local) root@192.168.0.22 ~
$ gcc lab8_e3.c -o lab8_e3
[node2] (local) root@192.168.0.22 ~
$ ./lab8_e3
Value of X in PID= 6132 is 5
Value of X in PID= 6133 is 5
[node2] (local) root@192.168.0.22 ~
$ .
```

Manual code 3:

Manual code 4:

Manual code 5:

```
return 0;

[node2] (local) root@192.168.0.22 ~

$ gcc lab8_wait_exit.c -o lab8_wait_exit
[node2] (local) root@192.168.0.22 ~

$ ./lab8_wait_exit
Parent: Waiting for child to finish...
Child: I'm working...
Child: I'm done!
Parent: Child has finished. I can continue.
[node2] (local) root@192.168.0.22 ~

$
```