

# **UBUNTU COMMANDS**

## **OPERATING SYSTEMS LABS**



### **Lab Task 09**

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## Task#09

If a parent process dies before its children, the children will be orphaned. The child process will not possess the old Parent's Process ID because the parent process has terminated. It will be assigned to another process in the system and will possess that Process's ID as its new Parent's Process ID.

Following is the sample program and its output to justify my statement.

### **CODE:**

```
#include <unistd.h>
```

```
#include <stdio.h>
```

#include<signal.h>\_\_\_\_\_

#include <sys/types.h>\_\_\_\_\_

#include <sys/wait.h>\_\_\_\_\_

#include <stdlib.h>\_\_\_\_\_

int main()

{\_\_\_\_\_

int pid = fork();

if (pid == 0) {\_\_\_\_\_

// child process code

printf("Child of %d\n",getppid());

\_\_\_\_\_

printf("Parent Dies and we wait for 3 seconds... \n");

sleep(3);\_\_\_\_\_

printf("Child has a new parent of PID:%d\n",getppid());

}

else {

// parent process code

printf("Parent ID %d\n",getpid());

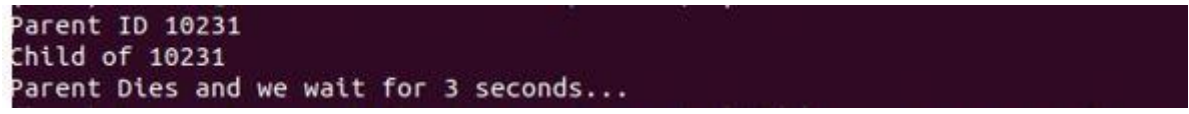
exit(0);

}

return 0;

}

### **OUTPUT:**



```
Parent ID 10231
Child of 10231
Parent Dies and we wait for 3 seconds...
```