UBUNTU COMMANDS

OPERATING SYSTEMS LABS

Lab Task 09

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Submitted to

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Task#09

If a parent process dies before it's 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 it's 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: