

EXP NO:5

System Calls Programming

PROGRAM

```
cse81@localhost:~  
#include <stdio.h>  
#include <stdlib.h>  
#include <unistd.h>  
  
int main() {  
    pid_t pid;  
  
    pid = fork();  
  
    if (pid == -1) {  
        printf("CHILD PROCESS NOT CREATED\n");  
        exit(0);  
    }  
  
    printf("THIS LINE EXECUTED TWICE\n");  
  
    if (pid == 0) {  
        printf("Child Process:\n");  
        printf("Process ID of child: %d\n", getpid());  
        printf("Parent Process ID of child: %d\n", getppid());  
    } else {  
        printf("Parent Process:\n");  
        printf("Process ID of parent: %d\n", getpid());  
        printf("Parent's Parent Process ID: %d\n", getppid());  
    }  
  
    printf("IT CAN BE EXECUTED TWICE\n");  
  
    return 0;  
}
```

OUTPUT

```
[cse81@localhost ~]$ ./a.out
THIS LINE EXECUTED TWICE
Parent Process:
Process ID of parent: 2506
Parent's Parent Process ID: 1342
IT CAN BE EXECUTED TWICE
THIS LINE EXECUTED TWICE
Child Process:
Process ID of child: 2507
Parent Process ID of child: 1
IT CAN BE EXECUTED TWICE
```