

EX – 5

System Calls Programming

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Program:

```
#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); // Exit if forking failed

    }

    printf("THIS LINE EXECUTED TWICE\n");

    if (pid == 0) {

        // Child process execution

        printf("CHILD PROCESS\n");

        printf("Child Process ID: %d\n", getpid());

        printf("Parent Process ID of Child: %d\n", getppid());

    }

    else {

        printf("PARENT PROCESS\n");

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

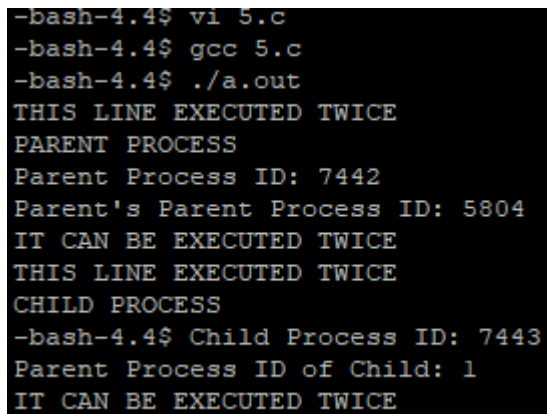
        printf("Parent's Parent Process ID: %d\n", getppid());

    }

}
```

```
    printf("IT CAN BE EXECUTED TWICE\n");  
    return 0;  
}
```

OUTPUT :



```
-bash-4.4$ vi 5.c  
-bash-4.4$ gcc 5.c  
-bash-4.4$ ./a.out  
THIS LINE EXECUTED TWICE  
PARENT PROCESS  
Parent Process ID: 7442  
Parent's Parent Process ID: 5804  
IT CAN BE EXECUTED TWICE  
THIS LINE EXECUTED TWICE  
CHILD PROCESS  
-bash-4.4$ Child Process ID: 7443  
Parent Process ID of Child: 1  
IT CAN BE EXECUTED TWICE
```