 **NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY**

**(An Institution of National Importance under MHRD, Govt. of India)**

**KARAIKAL – 609 609**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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| **Semester:** | 5th | **Class:** | BTech. 3rd Year |
| **Subject Code:** | CS305 | **Subject Name:** | UNIX PROGRAMMING |

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CS19B1015

Write a program using fork system call. Use sigaction to disable ctrl+\ signal and your process must accept SIGCHLD alone.

**PROGRAM:**

#include<stdio.h>

#include<unistd.h>

#include<signal.h>

#include<stdlib.h>

void ctrl\_handler(){

printf("CTRL +\\ is disabled. now returning to normal execution\n");

}

void sig\_handler(){

int i=0;

printf("SIGCHLD has been called\n");

while(i<10){

sleep(1);

printf("^");

fflush(stdout);

i++;

}

}

int main(int argc , char \* argv[]){

int pid;

sigset\_t stop;

sigfillset(&stop);

sigdelset(&stop, SIGCHLD);

sigdelset(&stop, SIGQUIT);

int m= sigprocmask(SIG\_BLOCK , &stop, NULL);

struct sigaction sig;

sig.sa\_handler = ctrl\_handler;

sig.sa\_flags= 0;

sigaction(SIGQUIT, &sig, NULL);

signal(SIGCHLD, sig\_handler);

if(pid = fork()){

printf("Parent here! %d\n", pid);

}

else{

printf("Child here! %d\n", pid);

exit(0);

}

sleep(5);

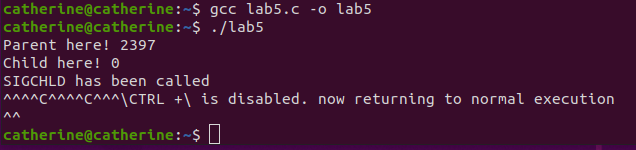
m= sigprocmask(SIG\_UNBLOCK , &stop, NULL);

getchar();

exit(0);

}

**OUTPUT:**

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