19.Write a C program which creates a child process to run linux/ unix command or

any user defined program. The parent process set the signal handler for death of

child signal and Alarm signal. If a child process does not complete its

execution in 5 second then parent process kills child process.

#include <stdio.h>

#include <signal.h>

#include<stdlib.h>

#include<unistd.h>

#include<sys/wait.h>

void childHandler ();

int main ()

{

int pid,status;

signal (SIGCHLD, childHandler);

pid = fork ();

if (pid == 0)

{

while(1){

}

}

else

{

sleep (5);

printf ("Child %d exceeded limit and is being killed\n", pid);

kill (pid, SIGINT); /\* Kill the child \*/

}

}

void childHandler ()

{

int childPid, childStatus;

childPid = wait (&childStatus); /\* Accept child's termination code \*/

printf ("Child %d terminatecd\n", childPid);

exit (0);

}