Q2

Q2

Code

Write C program that creates 2 children, each one creates one child, all processes must print their process identification number (PID) as well as their parent process identification number (PPID).

```
emad@vbox: ~/Desktop/emad1007395/assignment4/Q2
  GNU nano 2.5.3
                                   File: q2.c
                                                                           Modified
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
int main() {
  pid_t id[5];
  // id[0]: Main process
// id[1]: Process_1
  // id[1]: Process
  // id[1]: Process_1
  // id[1]: Process_2_1
  if( fork() ) {
   if( fork() ){
       id[0] = getpid();
printf("Main process: PID = %d\n", id[0]);
       wait();
     }else {
   if( fork() ) {
         id[2] = getpid();
printf(" proces
                      process_2: PID = %d\tPPID = %d\n", id[2], getppid() );
         wait();
       }else +
         id[4] = getpid();
printf(" process_2_1: PID = %d\tPPID = %d\n", id[4], getppid() );
     wait();
  }else {
    if( fork() ) {
       id[1] = getpid();
printf(" proces
                   process_1: PID = %d\tPPID = %d\n", id[1], getppid() );
       wait();
     }else
       id[3] = getpid();
       printf(" process_1_1: PID = %d\tPPID = %d\n", id[3], getppid() );
       wait();
     wait();
  wait();
  return 0;
                        [ XOFF ignored, mumble mumble ]
                                                                 ^J Justify
^G Get Help
                ^O Write Out
                                ^W Where Is
                                                 ^K Cut Text
                                                 ^U Uncut Text ^T To Spell
                ^R Read File
                                 ^\ Replace
   Exit
```

Q 2

```
🙆 🖨 🗊 emad@vbox: ~/Desktop/emad1007395/assignment4/Q2
         emad@vbox:~/Desktop/emad1007395/assignment4/02$ gcc q2.c
         q2.c: In function 'main':
         q2.c:17:7: warning: implicit declaration of function 'wait'
          [-Wimplicit-function-declaration]
                wait();
         emad@vbox:~/Desktop/emad1007395/assignment4/Q2$ ./a.out
         Main process: PID = 3961
            process_2: PID = 3963
                                         PPID = 3961
            process_1: PID = 3962
                                         PPID = 3961
Screenshot
          process 1 1: PID = 3965
                                         PPID = 3962
          process_2_1: PID = 3964
                                         PPID = 3963
         emad@vbox:~/Desktop/emad1007395/assignment4/Q2$ ./a.out
         Main process: PID = 3970
            process_2: PID = 3972
                                         PPID = 3970
            process_1: PID = 3971
                                         PPID = 3970
                                        PPID = 3972
          process 2 1: PID = 3973
          process_1_1: PID = 3974
                                         PPID = 3971
         emad@vbox:~/Desktop/emad1007395/assignment4/Q2$
```