Q2	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).
Code	

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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_2
  // id[1]: Process_1_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("   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();
      }
    }
    wait();
  }else {
    if( fork() ) {
      id[1] = getpid();
      printf("   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 ]
^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text    ^J Justify
^X Exit        ^R Read File   ^\ Replace     ^U Uncut Text  ^T To Spell
```

Screenshot