Name: Tanmay Vig

Roll No: 19BCS061

Class: 3rd year B. Tech CSE

Experiment 2: Design and implement Embedded System for blinking single LED with some delay in between, using 8051 Microcontroller and Keil.

Stuff Required: KEIL µVISION IDE, WINDOWS OS.

Program:

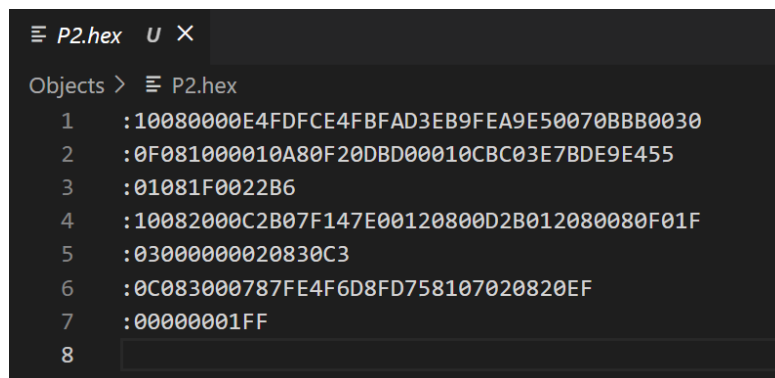File name: prog.c

```c
#include<p89v51rd2.h>

void delay(unsigned int d){
        unsigned int i,j;
        for(i=0;i<=1000;i++){
                for(j=0;j<=d;j++);
        }
}

void main(void){
        while(1){
                RxD=0;
                delay(20);
                RxD=1;
                delay(20);
        }
}
```

File name: P2.hex

```
≡ P2.hex  U ×
Objects > ≡ P2.hex
   1    :10080000E4FDFCE4FBFAD3EB9FEA9E50070BBB0030
   2    :0F081000010A80F20DBD00010CBC03E7BDE9E455
   3    :01081F0022B6
   4    :10082000C2B07F147E00120800D2B012080080F01F
   5    :03000000020830C3
   6    :0C083000787FE4F6D8FD758107020820EF
   7    :00000001FF
   8
```

Instructions:

1. Launch KEIL µVISION IDE.
2. Start new Project (here P2).
3. After writing the code. Debug the code by going to Debug dropdown from options menu above and choose Start/Stop Debug Session.
4. Go to Peripherals dropdown choose I/O-Ports then choose port 3.
5. Press F5 or again navigate to Debug dropdown and choose Run.
6. The 0th LED on Port 3 blinks.
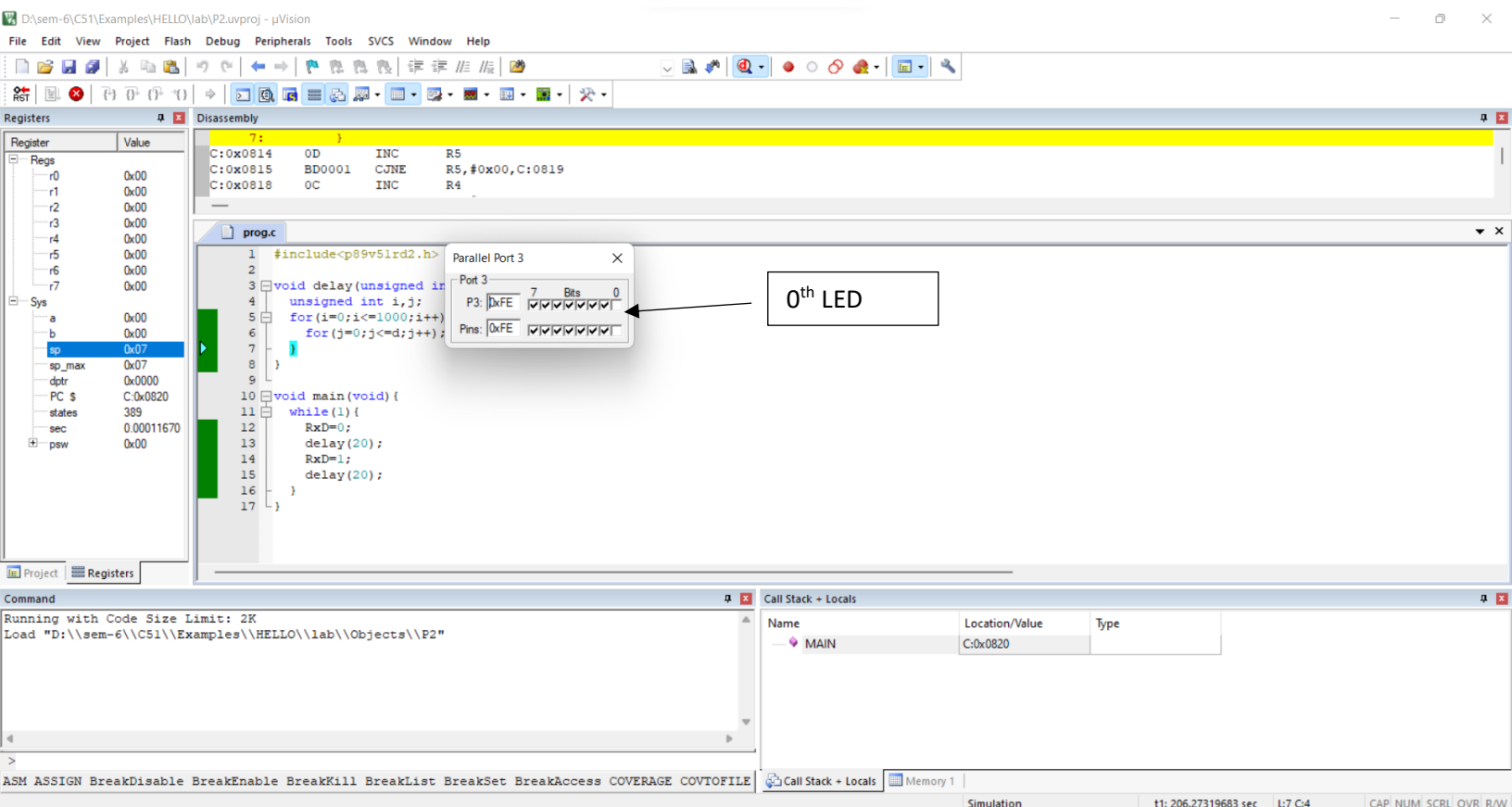
7. Navigate to Debug again and select stop to Stop Debug.

Result:

LED Blinking implemented.