**Experiment no xx**

Aim: Write an embedded C program to blind all the LEDs connected to Port1 on 8051 microcontroller with the following pattern. The delay between the two patterns should be 1ms.

Pattern 1 Pattern 2

Code:

#include<reg51.h>

void timer\_isr();

void timer\_isr(void) interrupt 1

{

static unsigned int sec\_cnt;

static unsigned pattern=0xaa;

TH0=0XE8;

TL0=0x2F;

sec\_cnt++;

if (sec\_cnt==500)

{

sec\_cnt=0;

pattern=~pattern;

P1=pattern;

}

}

void main()

{

P1=0;

TMOD=0x01;

TH0=0XE8;

TL0=0x2F;

ET0=1;

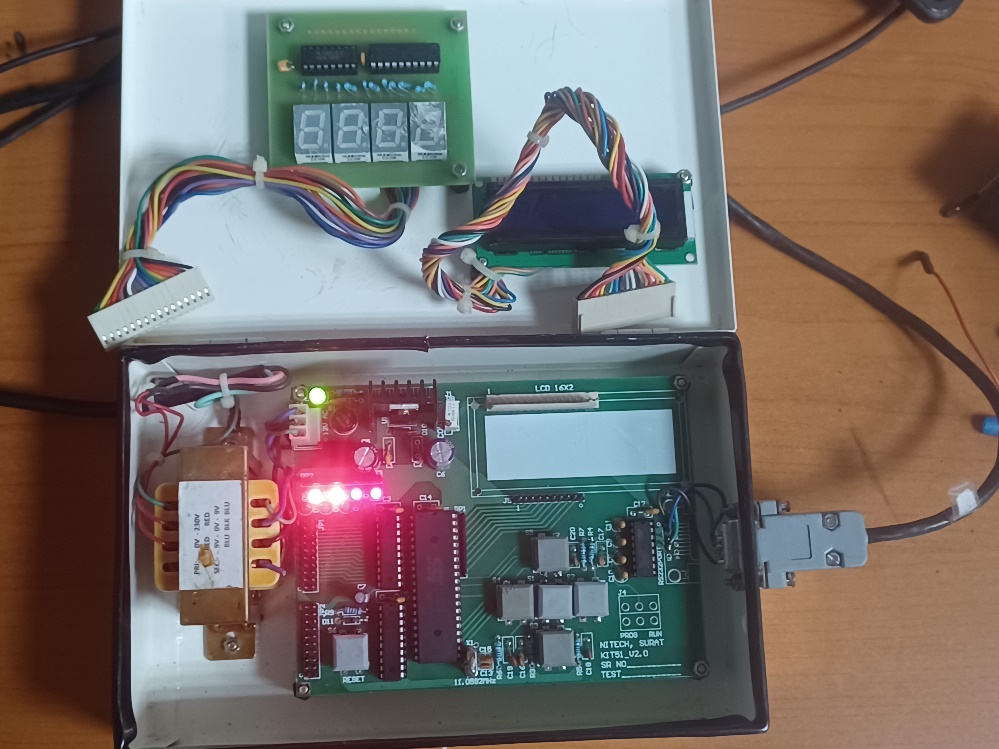
EA=1;

TR0=1;

while(1);

}

Result:

Conclusion: