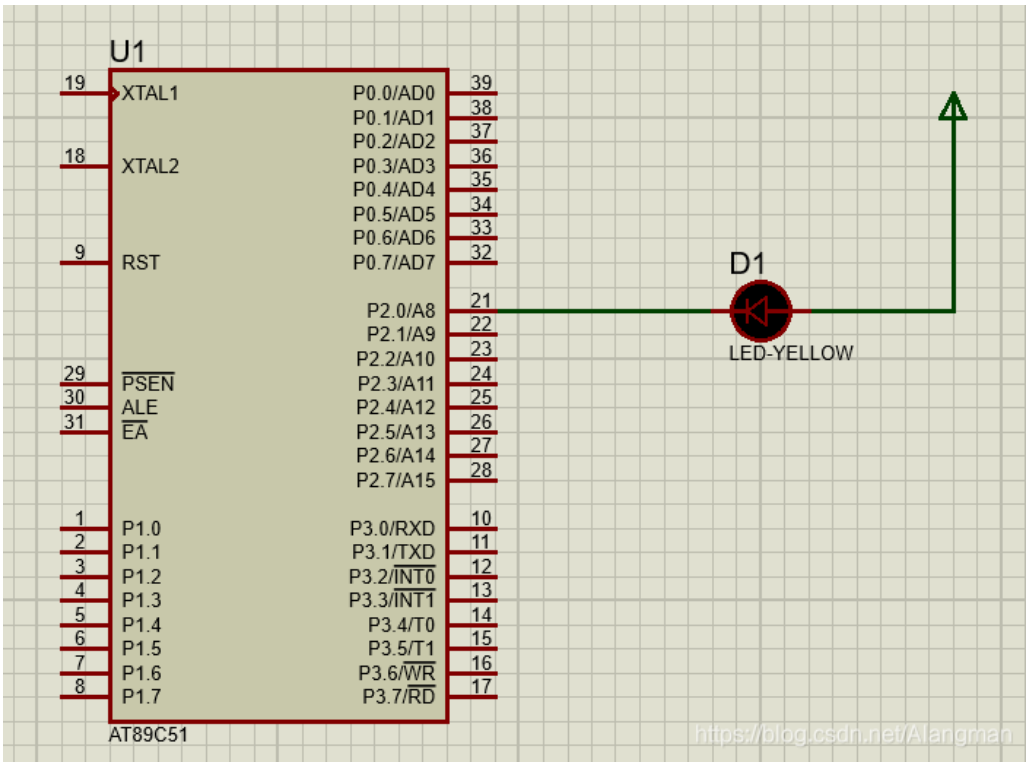
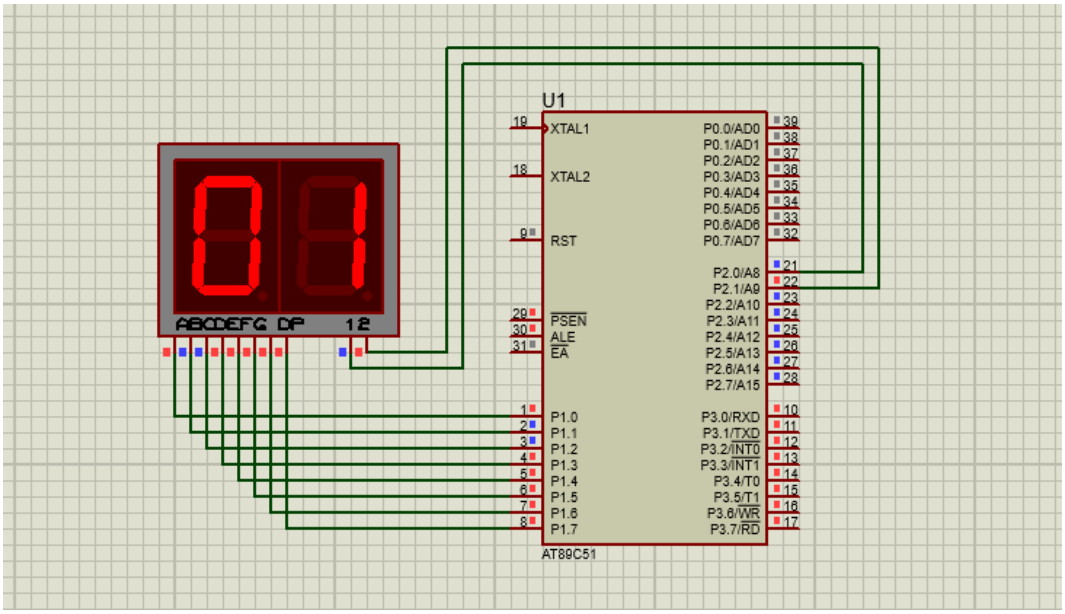
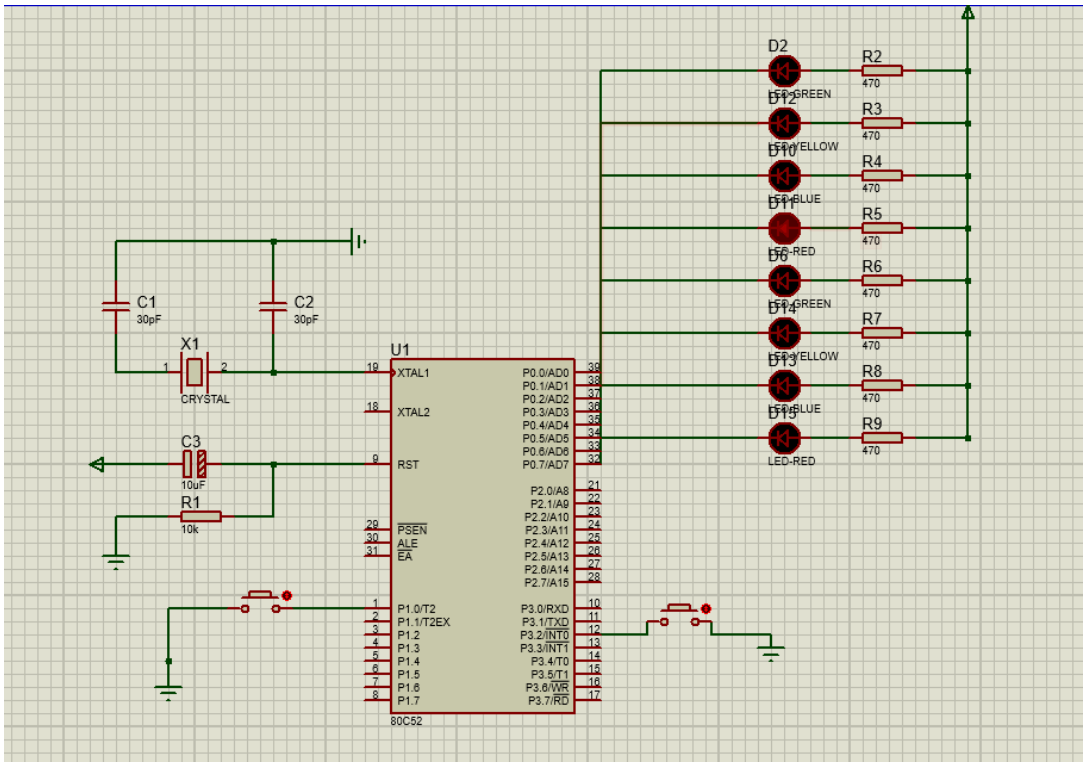
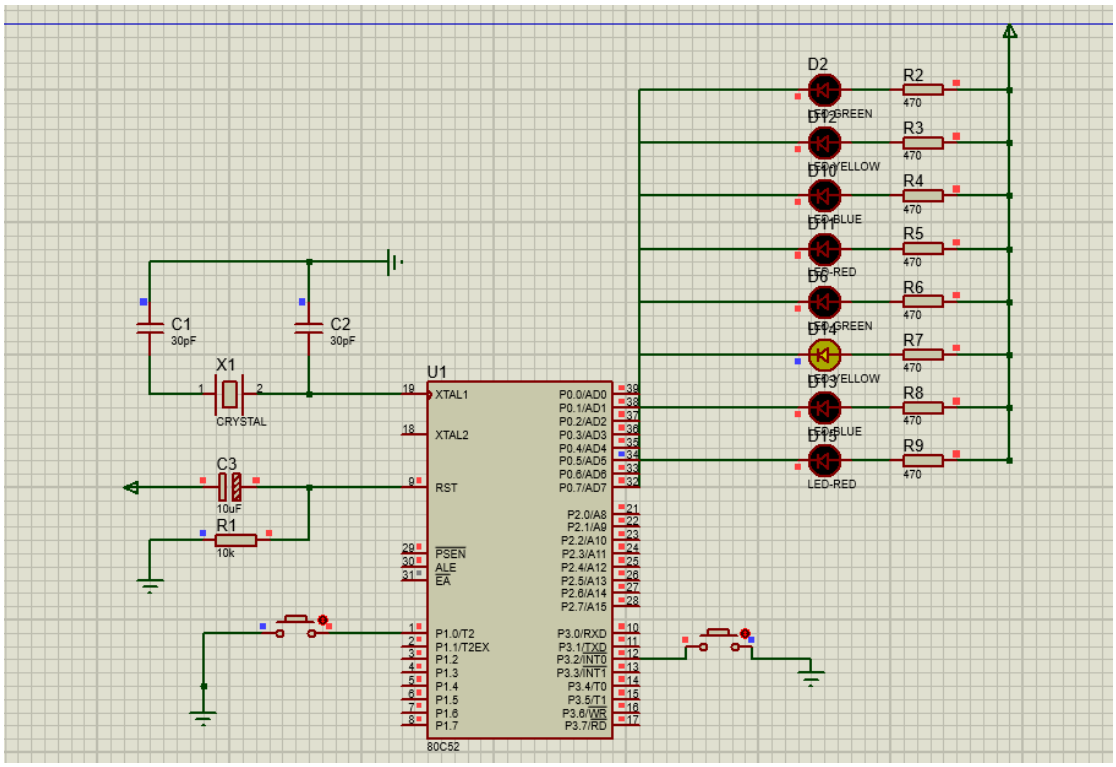



```c
#include<reg51.h>
#include<intrins.h>
int flag=0;
sbit ledPort = P2;

void main()
{
  TMOD=0x10;            //工作于方式1
  EA=1;                 // 中断允许
  ET1=1;                // 中断1打开
  TH1=(65536-50000)/256;        // (65536-50000)/256=60.6875
  TL1=(65536-50000)%256;
  TR1=1;
  while(1){}
}

void timer1(void) interrupt 3
{
  unsigned char i;
  TH1=(65536-50000)/256;
  TL1=(65536-50000)%256;
    flag++;
  if (flag==20)       //达到1s
    {
        i++;
      flag  =0;
      ledPort = ~(1<<i) ;
      i=(i+1)%8;
    }
}
```


U1
XTAL1
XTAL2
RST
PSEN
ALE
EA
P1.0
P1.1
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
P0.0/AD0
P0.1/AD1
P0.2/AD2
P0.3/AD3
P0.4/AD4
P0.5/AD5
P0.6/AD6
P0.7/AD7
P2.0/A8
P2.1/A9
P2.2/A10
P2.3/A11
P2.4/A12
P2.5/A13
P2.6/A14
P2.7/A15
P3.0/RXD
P3.1/TXD
P3.2/INT0
P3.3/INT1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
AT89C51
A B C D E F G DP
1 2

```c
#include<reg51.h>
#include<intrins.h>
int i=0,k=0;
int decade,units;
int m,n;
void delay(n);

void displayLED(unsigned char x)
{
  unsigned char code segment[]={
  0xc0,0xf9,0xa4,0xb0,0x99,0x92,0x82,0xf8,
  0x80,0x90,0x88,0x83,0xc6,0xa1,0x86,0x8e
  };
  m=segment[x];
}

void main()
{
  TMOD=0x10;
  EA=1;
  ET1=1;
  TH1=(65536-50000)/256;
  TL1=(65536-50000)%256;
  TR1=1;

  while(1)
    {   if (k==60)k=0;      //设置模为60
        decade=k/10;    //十位
        units=k%10;     //个位
        P1=0Xff;        //先向P1口写1
        displayLED(decade);
        P1=m;
        P2=0x01;
        delay(10);
        P1=0Xff;
        displayLED(units);
        P1=m;
        P2=0x02;
        delay(10);
    }
}

void isr_int3(void)interrupt 3
{
  TH1=(65536-50000)/256;
  TL1=(65536-50000)%256;
  i++;
  if (i==20)
    {
      i=0;
      k++;
    }
}

void delay(n)
{
  while(n)
  {
    while(n){--n;}
  }
}
```


D2
R2
470
LED-GREEN
R3
470
LED-YELLOW
R4
470
LED-BLUE
R5
470
LED-RED
R6
470
LED-GREEN
R7
470
LED-YELLOW
R8
470
LED-BLUE
R9
470
LED-RED
C1
30pF
C2
30pF
X1
CRYSTAL
C3
10uF
R1
10k
U1
XTAL1
XTAL2
RST
PSEN
ALE
EA
P1.0/T2
P1.1/T2EX
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
P0.0/AD0
P0.1/AD1
P0.2/AD2
P0.3/AD3
P0.4/AD4
P0.5/AD5
P0.6/AD6
P0.7/AD7
P2.0/A8
P2.1/A9
P2.2/A10
P2.3/A11
P2.4/A12
P2.5/A13
P2.6/A14
P2.7/A15
P3.0/RXD
P3.1/TXD
P3.2/INT0
P3.3/INT1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
80C52


D2
R2
470
LED-GREEN
R3
470
LED-YELLOW
R4
470
LED-BLUE
R5
470
LED-RED
R6
470
LED-GREEN
R7
470
LED-YELLOW
R8
470
LED-BLUE
R9
470
LED-RED
C1
30pF
C2
30pF
X1
CRYSTAL
C3
10uF
R1
10k
U1
XTAL1
XTAL2
RST
PSEN
ALE
EA
P1.0/T2
P1.1/T2EX
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
P0.0/AD0
P0.1/AD1
P0.2/AD2
P0.3/AD3
P0.4/AD4
P0.5/AD5
P0.6/AD6
P0.7/AD7
P2.0/A8
P2.1/A9
P2.2/A10
P2.3/A11
P2.4/A12
P2.5/A13
P2.6/A14
P2.7/A15
P3.0/RXD
P3.1/TXD
P3.2/INT0
P3.3/INT1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
80C52