Counter1

```c
#include <xc.h>
// CONFIG
#pragma config FOSC = HS     // Oscillator Selection bits (RC oscillator)
#pragma config WDTE = OFF    // Watchdog Timer Enable bit (WDT disabled)
#pragma config PWRTE = OFF   // Power-up Timer Enable bit (PWRT disabled)
#pragma config BOREN = OFF   // Brown-out Reset Enable bit (BOR disabled)
#pragma config LVP = OFF     // Low-Voltage (Single-Supply) In-Circuit
Serial Programming Enable bit (RB3 is digital I/O, HV on MCLR must be
used for programming)
#pragma config CPD = OFF     // Data EEPROM Memory Code Protection bit
(Data EEPROM code protection off)
#pragma config WRT = OFF     // Flash Program Memory Write Enable bits
(Write protection off; all program memory may be written to by EECON
control)
#pragma config CP = OFF      // Flash Program Memory Code Protection bit
(Code protection off)

// #pragma config statements should precede project file includes.
// Use project enums instead of #define for ON and OFF.

#define _XTAL_FREQ 20000000

main()
{
     char i;
     TRISD0=0;
     TRISC2=TRISC3=0;
     RD0=0;
     GIE=1;                  //enabling global interrupt
     PEIE=1;                 //enabling periferal interrupt
     T1SYNC=0;               //synchronus mode
     T1CKPS1=0;              //prescale assigned to 1:8
     T1CKPS0=0;              //--------"---------------
     T1OSCEN=1;              //external oscilation disable
     TMR1CS=1;               //counter mode
     TMR1H=0xff;             //initialising timer values
     TMR1L=0xfe;             //--------"----------
     TMR1ON=1;               //timer on
     TMR1IE=1;
     while(1)                //running two lights
     {
          RC2=~RC2;
          RC3=~RC3;
          for(i=0;i<=100;i++)
               __delay_ms(10);
     }
}


interrupt isr()
{
     RD0=1;
     TMR1IF=0;               //clearing flag
}
```