

```

#define SBIT_T2CKPS1  1

char value = 0;
int count = 0;

void interrupt()
{
    if(TMR2IF==1)
    {
        TMR2 = 101;      /*Load the timer Value, (Note: Timervalue is
101 instead of 100 as the          Timer2 needs two instruction Cycles to start
incrementing TMR2 */
        TMR2IF=0;        // Clear timer interrupt flag

        if(count>=2000) //500us * 2000=1000000us=1sec
        {
            count=0;
            value=~value;    // complement the value for blinking the
LEDS
        }
        else
        {
            count++; // Keep incrementing the count till it reaches
2000 to generate 1sec delay
        }
    }
}

void main()
{
    TRISD=0x00;    //Configure PORTD as output to blink the LEDs

    T2CON = (1<<SBIT_T2CKPS1); // Timer2 with external freq and 16 as
prescalar
    TMR2=100;      // Load the timer value for 500us delay
    TMR2IE=1;      //Enable timer interrupt bit in PIE1 register
    GIE=1;         //Enable Global Interrupt
    PEIE=1;        //Enable the Peripheral Interrupt
    TMR2ON = 1;

    while(1)
    {
        PORTD = value;
    }
}

```