```
                            led_blk.txt
// ***********************************************************
// Project: Decorative LEDS
// Author: This project turn on three leds connected at portb
//                    every second Using CTC Mode.

// Module description:
// ***********************************************************

#include <avr\io.h>              // Most basic include files
#include <avr\interrupt.h>       // Add the necessary ones
#include <avr\signal.h>          // here

void init(void);
// Global static variable
int seconds;
seconds=0;

/*-------Initialization Function-------*/
void init(void)
{
    // The microcontroller is operated at 1MHz frequency using internal RC
oscillator.
        DDRB = 0b11111111; // Setup PORTB as Output
    TCCR1B|=(1<<WGM12); // Selects prescaler as 64
    TCCR1B |= (1<<CS11) | (1<<CS10); // Timer1 selected in CTC Mode
    OCR1A=15625;                        //
        asm("nop");             // Inline assembly example
}

// ***********************************************************
// Main program

int main(void)
{
    init();
    while(1)
    {            // Infinite loop;

                if(TIFR & (1<<OCF1A)) //Checks whether a second has //elapsed
      {
        {PORTB=0x01;}

        if(seconds==1)
        {
                PORTB=0x03;
        }
        if(seconds==2)
        {
                PORTB=0x07;
        }
        TIFR=(1<<OCF1A);  //Sets the OCF1A bit to reset the Timer1
        seconds++;     //second variable is incremeted every second

        if(seconds==4)
        {
                PORTB=0x00;//PORTB^=(0<<0) | (0<<1) | (0<<2);
                seconds=0;
        }
      }
    }
}
```