

```

1  .module main
2  .globl _start
3
4  .area HOME (CODE)
5  .area XSEG (XDATA)
6  .area PSEG (PAG,XDATA)
7  .area RSEG (ABS,DATA)
8
9  .area CSEG (ABS,CODE)
10
0000:11 .org 0x0000
02 00 1E      ljmp _start
000B:13 .org 0x000B
02 00 26      ljmp _timer0_isr
15
16 TCON = 0x88
17 TMOD = 0x89
18 TL0 = 0x8A
19 TH0 = 0x8C
20 P1 = 0x90
21 IE = 0xA8
22
23
000E:24 _irq_init:
D2 AF 5      setb IE.7
D2 A9 6      setb IE.1
43 89 02      orl TMOD, #0x02
75 8A 9C      mov TL0, #(256 - 100)
85 8A 8C      mov TH0, TL0
D2 8C 0      setb TCON.4
22 31      ret
32
33
001E:34 _start:
11 0E 35      acall _irq_init
74 64 36      mov A, #100
EB 37      mov r3, A
02 00 23      ljmp .
39
0026:40 _timer0_isr:
14 41      dec A
70 08 42      jnz _isr_end1
0029:43 _isr_if_zero1:
DB 04 4      djnz r3, _isr_end2 ; decrement r3 and jump if not zero
002B:45 _isr_if_zero2:
7B 64 46      mov r3, #100
B2 90 47      cpl P1.0 ; toggle LED
002F:48 _isr_end2:
74 64 49      mov A, #100
0031:50 _isr_end1:
32 51      reti

```