

```

1  .module main
2  .globl _start
3  .globl _ms_wait
4
5  .area HOME (CODE)
6  .area XSEG (XDATA)
7  .area PSEG (PAG,XDATA)
8  .area RSEG (ABS,DATA)
9
10 .area CSEG (ABS,CODE)
11
0000: 12  .org 0x0000
02 00 33      ljmp _start
14
15 TCON = 0x88
16 TMOD = 0x89
17 TL0 = 0x8A
18 TH0 = 0x8C
19 P1 = 0x90
20
21
0003: 22  _ms_wait: ; param: A ==> wait for A * 100 msec
43 89 02      orl TMOD, #0x02
75 8A 9C      mov TL0, #(256 - 100)
75 8C 9C      mov TH0, #(256 - 100)
D2 8C        setb TCON.4
27
000E: 28  ms_wait_loop:
12 00 26      lcall wait_100ms
14          dec A
70 FA        jnz ms_wait_loop
32
C2 8C        clr TCON.4
22          ret
34
0017: 36  wait_1ms:
C0 E0        push A
74 0A        mov A, #10
38          wait_1ms_loop:
30 8D FD      jnb TCON.5, .
C2 8D        clr TCON.5
14          dec A
70 F8        jnz wait_1ms_loop
D0 E0        pop A
22          ret
44
0026: 46  wait_100ms:
C0 E0        push A
74 64        mov A, #100
50          wait_100ms_loop:
12 00 17      lcall wait_1ms
14          dec A
70 FA        jnz wait_100ms_loop
D0 E0        pop A
22          ret
54
0033: 56  _start:
74 0A        mov A, #10
12 00 03      lcall _ms_wait
63 90 01      xrl P1, #1
02 00 33      ljmp _start

```