

```

1 $NOMOD51
2 $INCLUDE (8051.MCU)
3
4 ; Reset Vector
5 ORG 0000H
6 JMP START
7
8 ORG 0100H
9 START:
10 MOV TMOD, #10H
11 MOV TL1, #78H
12 MOV TH1, #0ECH
13 SETB TR1
14 MOV R0, #9
15
16 LOOP:
17
18 CALL DISPLAY
19
20 JMP LOOP
21
22 DISPLAY:
23 MOV A, #01H
24 HT1:
25 MOV P3, A
26 MOV P2, R0
27 CALL Delay_5ms
28 RR A
29 CJNE A, #01H, HT1
30 RET
31 RET
32
33 DELAY_5MS:
34 MOV TL1, #78H
35 MOV TH1, #0ECH
36 SETB TR1
37 JNB TF1, $
38 RET
39 END
40

```