TITLE: Timer Programming

CODE:

ORG 0000H ;Beginning of MAIN address from 0000H

LJMP MAIN ;16 bit jump to label MAIN

ORG 001BH ;Beginning of TOISR from 000BH

LJMP TOISR ;16 bit jump to label TOISR

ORG 0030H ;

MAIN:

MOV TMOD,#01H ;Set Timer1 to Mode 1

MOV TL1,#8AH ;Loads TL1 with overflow value

MOV TH1,5FH ;Sets high value for TH0

SETB TCON.6 ;Start Timer 1

MOV IE,#88H ;Enable Timer 1 Interrupt

HERE: SJMP HERE ;Loop

TOISR:

CLR TCON.5 ;Clear Timer Overflow Flag

CLR TCON.6 ;Clear Timer 1 Run COntrol

CPL P1.2 ;Complement Signal Level

MOV TL1,#8AH ;Loads TL1 with overflow value

MOV TH1,#5FH ;Sets high value for TH0

SETB TCON.6 ;Start Timer 1

RETI ;Return from Interrupt