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1 ;EXPT 2E: ALP TO COUNT THE EXTERNAL PULSES. ASSUMING THAT THE CLOCK PULSES ARE FED
2 ;INTO PIN T1(P3.5),COUNTER 1 IN MODE2
3 ;NAME: ANIL RAJPUROHIT
4 ;BATCH: B2, ROLL NO :312046
5 ;DATE OF PERFORMANCE: 11/07/18
6
7     ORG 0000H
8
9     MOV TMOD, #060H      ;SET TIMER 1 AS COUNTER
10    MOV TL1,  #00H       ;INITIALISE TL1 TO 00
11    MOV P3 ,   #0b00100000 ;SET P3.5 AS AN INPUT
12    TOL: SETB TR1
13    L1:  MOV A,TL1        ;MOVE CONTENTS OF TL1 TO ACCUMULATOR OR STORE 00 TO ACC
14    MOV P2,A             ;MOVE CONTENTS OF ACCUMULATOR TO PORT 2
15    JNB TF1,L1           ;JUMP IF NOT TF1!=0(tfl overflows)
16    CLR TR1
17    CLR TF1
18    SJMP TOL             ;SHORT JUMP LOOP TO 'TOL'
19
20    END
21
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