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1      ;EXPT 2E: ALP TO COUNT THE EXTERNAL PULSES .ASSUMING THAT THE CLOCK
      PULSES ARE FED INTO PIN  T1(P3.5),COUNTER 1 IN MODE2
2      ;NAME: AADESEH U PISE
3      ;BATCH: B2, ROLL NO :312041
4      ;DATE OF PERFORMANCE: 11/07/18
5
6      ORG 000H
7      MOV TMOD, #060H      ;SET TIMER 1 AS COUNTER
8      MOV TL1,  #00H      ;INITIALISE TL1 TO 00
9      MOV P3 ,  #020H      ;SET P3.5 AS AN INPUT
10     TOL:SETB TR1
11     L1:MOV A,TL1          ;MOVE CONTENTS OF TL1 TO ACCUMULATOR OR
      STORE 00 TO ACC
12     MOV P2,A              ;MOVE CONTENTS OF ACCUMULATOR TO PORT 2
13     JNB TF1,L1            ; JUMP IF NOT TF1!=0 (tfl overflows)
14     CLR TR1
15     CLR TF1
16     SJMP TOL              ;SHORT JUMP LOOP TO 'TOL'
17     END
18
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