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1  ;EXPT 2: Parallel port interfacing of LEDs
2  ;Problem statement: 2B Flash alternate LEDs
3  ;connected to port 2 by having 1 sec delay, generate delay using TIMER.
4  ;NAME: Anil Rajpurohit
5  ;BATCH: B2, ROLL NO :312046
6  ;DATE OF PERFORMANCE: 11/07/18
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8
9      ORG 0x0000
10
11      AGAIN:  MOV P2,#0b01010101      ;VALUE AT PORT2 TO GLOW ALTERNATE LED
12              ACALL DELAY              ;DELAY of 1s
13              MOV P2,#0b10101010      ;OTHER SET OF ALTERNATE LEDS GLOW
14              ACALL DELAY              ;DELAY of 1s
15              SJMP AGAIN                ;JUMP TO AGAIN LOOP FOR LED BLINKING
16
17
18
19      DELAY:  MOV R0,#0x14              ;DELAY USING TIMER
20              MOV TMOD,#0x01            ;MODE1 IS SELECTED
21      L1:    MOV TL0,#0x00              ;INITIALISE TL0 = 0, FOR MAX COUNT
22              MOV TH0,#0x00              ;INITIALISE TH0 = 0, FOR MAX COUNT, i.e (TH0TL0 = 0)
23              SETB TR0                    ;START TIMER
24      L2:    JNB TF0,L2                  ;WAIT UNTIL TIMER OVERFLOWS, i.e COUNTS UPTO 65535
25              CLR TR0                    ;STOP TMER
26              CLR TF0                    ;CLEAR
27              DJNZ R0,L1                  ;continue the above opertaions for 14 times
28
29              RET
30      END
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