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1  ;EXPT 2D: Parallel port interfacing of LEDs
2  ;PROBLEM STATEMENT: ALP FOR HEXADECIMAL NUMBER DISPLAY ON LEDS CONNECTED TO PORT 2
3  ;NAME: Anil Rajpurohit
4  ;BATCH: B2, ROLL NO :312046
5  ;DATE OF PERFORMANCE: 11/07/18
6
7
8      ORG 0000H
9
10     MOV P2,#00H          ;MOVE 00H TO PORT2
11     HERE: INC P2          ;INCREMENT VALUE TO PORT 2
12     ACALL DELAY          ;DELAY SUBROUTINE
13     SJMP HERE
14
15
16     DELAY: MOV R0,#14     ;DELAY USING TIMER
17     MOV TMOD,#01H        ;TIMER 0 ,MODE 1 IS SELECTED
18     L1: MOV TL0,#00      ;INITIALISE TL0 TO 00H
19     MOV TH0,#00          ;INITIALISE TH0 TO 00H
20     SETB TR0             ;START TIMER
21     L2: JNB TF0,L2        ;WAIT TILL DELAY END
22     CLR TR0              ;STOP TMER
23     CLR TF0              ;CLEAR TF0 FLAG
24     DJNZ R0,L1           ;RUN LOOP `14 TIMES
25
26     RET
27     END
```