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 1    ;EXPT_2C: Parallel port interfacing of LEDs
 2    ;Problem statement: WRITE AN ALP TO DISPLAY BCD NUMBERSON PORT 2.
 3    ;NAME: ANIL RAJPUROHIT
 4    ;BATCH: B2, ROLL NO :312046
 5    ;DATE OF PERFORMANCE: 11/07/18
 6
 7            ORG 0000H
 8
 9            MOV A,#00H       ;INITIALIZE A WITH 00H
10            MOV R1,#100D     ;INITIALIZE R1 WITH COUNT 99
11       L4: MOV P2,A          ;COPY A IN P2
12            INC A            ;INCREMENT A
13            DA A             ;ADJUST THE NUMBER IN A TO DECIMAL VALUE
14            ACALL DELAY      ;CALL DELAY
15            DJNZ R1,L4       ;DECREMENT R1 AND JUMP TO L1
16
17
18    DELAY: MOV R2,#07        ;LOOP FOR SEVEN REPETATION
19       L1: MOV R1,#0FFH
20       L2: MOV R0,#0FFH
21       L3: DJNZ R0,L3        ;Decrement jump till r0!=0
22            DJNZ R1,L2       ;Decrement jump till r1!=0
23            DJNZ R2,L1       ;Decrement jump till r2!=0
24
25            RET
26            END
```