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1 ;EXPERIMENT_3D: WRITE AN ALP TO INTERFACE DAC AND GENERATE SINE WAVEFORM
2 ;NAME: ANIL RAJPUROHIT
3 ;ROLL NO: 312046
4 ;BATCH: B2
5 ;DATE OF PERFORMANCE:1/8/2018
6
7     ORG 0000H
8
9     CLR A ;clr accumulator
10    L1: MOV DPTR,#SINEWAVE ;taking sine wave content in DPTR
11        MOV R0,#72
12        CLR P0.7 ;enable the dac wr line
13    L2: MOVC A,@A+DPTR ;load content in accumulator
14        MOV P1,A ;load data in port 1
15        CLR A
16        INC DPTR ;taking next content
17        DJNZ R0,L2
18        SJMP L1 ;continuous waveform
19
20
21    ORG 0100H
22    SINEWAVE: DB 128,138,150,160,170,180,191,201,209,217,224,231,238,242,246,250,253,254
23              DB 255,254,253,250,246,242,238,231,224,217,209,201,191,181,170,160,150,115
24              DB 128,117,106,96,84,74,64,55,46,38,31,25,18,13,9,5,2,1,0
25              DB 0,1,2,5,9,13,18,25,31,38,46,55,64,74,84,96,106,117,126
26
27    END
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