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 1                      ;EXPERIMENT 3:WRITE AN ALP TO INTERFACE DAC AND GENERATE
      TRIANGULAR WAVEFORM USING 89S52
 2                      ;NAME: AADESH PISE
 3                      ;ROLL N0:312041
 4                      ;BATCH:B2
 5                      ;DATE OF PERFORMANCE:1/8/2018
 6
 7              ORG 000H
 8              CLR A                   ;INITIALIZING SATART POSITION IE 00
 9              BACK:MOV P1,A           ;LOAD DATA OF A INTO PORT 1
10              INC A                   ;INCREMENT STEP OF A
11              CJNE A,#0FFH,BACK       ;COMPARE TO HIGHEST PEAK OF WAVE
12              MOV A,#0FFH             ;INITIALIZING HIGHEST VALUE OF WAVE
13              HERE:MOV P1,A           ;LOAD DATA OF A INTO PORT 1
14              DEC A                   ;DECREASING STEP OF WAVE
15              CJNE A,#00,HERE         ;COMPARE TO LOWEST PEAK OF WAVE
16              SJMP BACK               ;CONTINUOUS WAVEFORM
17              END
```