```asm
1    ;EXPERIMENT_3C: WRITE AN ALP TO INTERFACE DAC AND GENERATE TRIANGULAR WAVEFORM USING 89S52
2    ;NAME: ANIL RAJPUROHIT
3    ;ROLL N0: 312046
4    ;BATCH: B2
5    ;DATE OF PERFORMANCE:1/8/2018
6
7             ORG 0000H
8
9             CLR A                ;INITIALIZING SATART POSITION i.e 00H
10    BACK:    MOV P1,A             ;LOAD DATA OF A INTO PORT 1
11             INC A                ;INCREMENT STEP OF A
12             CJNE A,#0FFH,BACK    ;COMPARE TO HIGHEST PEAK OF WAVE
13             MOV A,#0FFH          ;INITIALIZING HIGHEST VALUE OF WAVE
14    HERE:    MOV P1,A             ;LOAD DATA OF A INTO PORT 1
15             DEC A                ;DECREASING STEP OF WAVE
16             CJNE A,#00,HERE      ;COMPARE TO LOWEST PEAK OF WAVE
17             SJMP BACK            ;CONTINUOUS WAVEFORM
18
19             END
```