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1  ;Analog_Comparator_Polling.asm
2  PROCESSOR PIC16F628
3  #include <P16F628.INC>
4  __CONFIG    _CP_OFF & _MCLRE_ON & INTRC_OSC_NOCLKOUT & _LVP_OFF
5             & _WDT_OFF
6
7  ORG         0x00
8  goto       main
9
10 main:
11     call    init
12
13 inf_loop:
14     btfss   CMCON,C2OUT
15     goto    SET_HIGH
16
17 SET_LOW:
18     bsf     PORTB,0
19     bcf     PORTB,1
20     goto    OVER
21
22 SET_HIGH:
23     bcf     PORTB,0
24     bsf     PORTB,1
25
26 OVER:
27     goto    inf_loop
28
29 init:
30     banksel TRISA          ; Select Bank1
31     movlw   B'00000110'    ; RA1, RA2 are input pins
32     movwf   TRISA
33     clrw
34     movwf   TRISB          ; Port B is output
35     banksel PORTB         ; select Bank0
36     clrw
37     movwf   PORTB
38     movlw   .5             ; 5 = B'0000101' ;Analog comparator in mode 5
39     (single C2)
40     movwf   CMCON
41     return
42     END

```