**DAC CODE**

DATA SEGMENT

PORTA EQU 00H

PORTB EQU 02H

PORTC EQU 04H

PORT\_CON EQU 06H

DATA ENDS

CODE SEGMENT

MOV AX,DATA

MOV DS, AX

ORG 0000H

START:

mov DX, PORT\_CON

mov al, 80h

out dx,al

again:

mov dx,PORTA

mov al,0ffh

out dx, al

mov dx,66CCh

back:

dec dx

jnz back

mov dx,PORTA

mov al,00h

out dx,al

mov dx,66CCh

back1:

dec dx

jnz back1

jmp again

CODE ENDS

END

**ADC CODE**

DATA SEGMENT

PORTA EQU 00H

PORTB EQU 02H

PORTC EQU 04H

PORT\_CON EQU 06H

DATA ENDS

CODE SEGMENT

MOV AX,DATA

MOV DS, AX

ORG 0000H

START:

mov DX, PORT\_CON

mov al,98h

out dx,al

mov al,02h

mov dx,PORTC ;to send input channel address

out dx,al

again:

mov al,00h

mov dx,PORTC

out dx,al

mov al,01h ;rising edge

out dx,al

mov al,00h ;falling edge

out dx,al

loop1:

in al,dx

rcl al,01h

JNC loop1

mov dx,PORTA ;taking input of digital value

IN al,dx

mov dx, PORTB

out dx,al ;displaying output

mov bx,0CD98h

back1: ;1 sec delay

dec bx

jnz back1

mov bx,0CD98h

back2: ;1 sec delay

dec bx

jnz back2

JMP again

CODE ENDS

END