Program 10
Program to implement square wave generation using DAC

		PROGRAM	ALGORITHM	
START:	MVI	A,80	STEP 1:Write the control word in to the	
	OUT	CWR	PPI of the kit	
RPT:	XRA	A		
	OUT	$P_a$		
	OUT	$P_b$	STEP 2: Pass the data's for square wave	
	CALL	OFFCOUNT	towards PPI words	
	MVI	A,FF		
	OUT	$P_a$	STEP 3: Pass the alternative data's for	
	OUT	$P_b$		
	CALL	ONCOUNT	LOW & HIGH alternatively	
	JMP	RPT	with proper delay according to	
	HLT		the duty cycle given	
ONCOUNT: LXI		H,08		
LOOP:	DCX	Н	C TED 4 IV. 4	
	MOV	A,L	S TEP 4: Keep the processor in a	
	ORA	H	continuous loop till termination	
	JNZ	LOOP		
RET			STEP 5: Terminating point	
OFFCOUNT:LXI		H,03		
LOOP1:	DCX	Н		
	MOV	A,L		
	ORA	Н		
	JNZ	LOOP		
	RET			

## NOTE:

- Store the program starting from F000H
- Connect the interfacing unit to the kit
- Execute the program
- Observe the waveform on the CRO

## PORT ADDRESS:

FOI	R P3	FOR P4	
PORT	ADDRESS	PORT	ADDRESS
PORT A	D8	PORT A	F0
PORT B	D9	PORT B	F1
PORT C	DA	PORT C	F2
CWR	DB	CWR	F3

## **OUT PUT WAVEFORM:**

