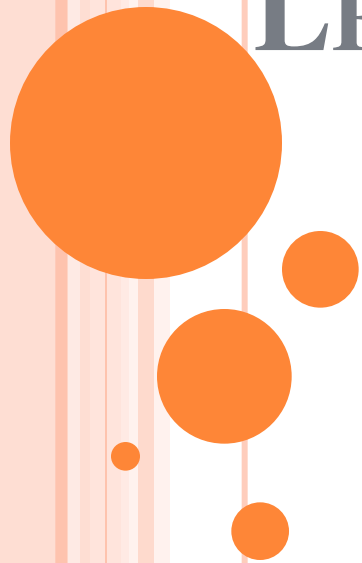
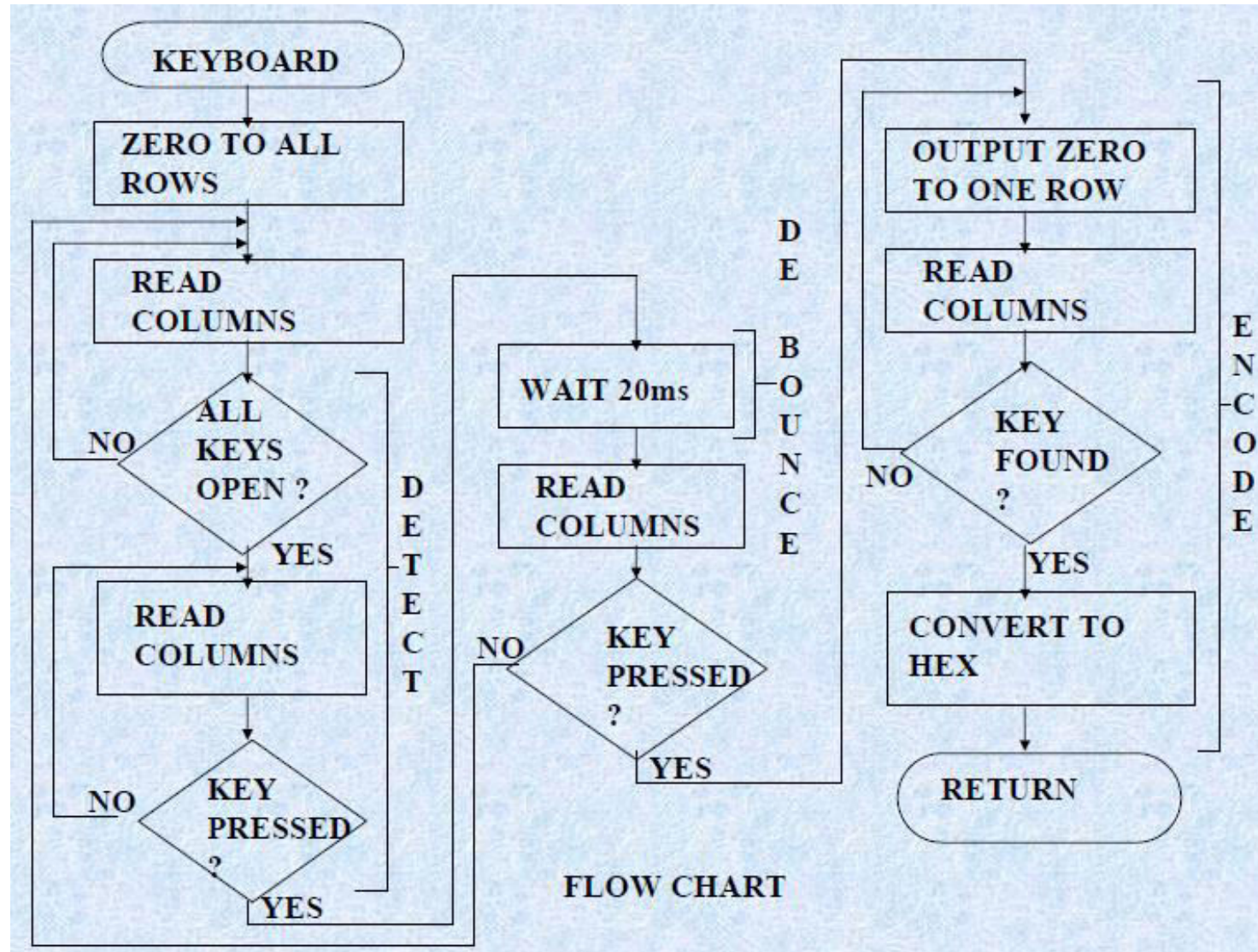


INTERFACING KEYBOARD AND SEVEN SEGMENT DISPLAY LECTURE 2



FLOW CHART: KEY CHECK SUBROUTINE



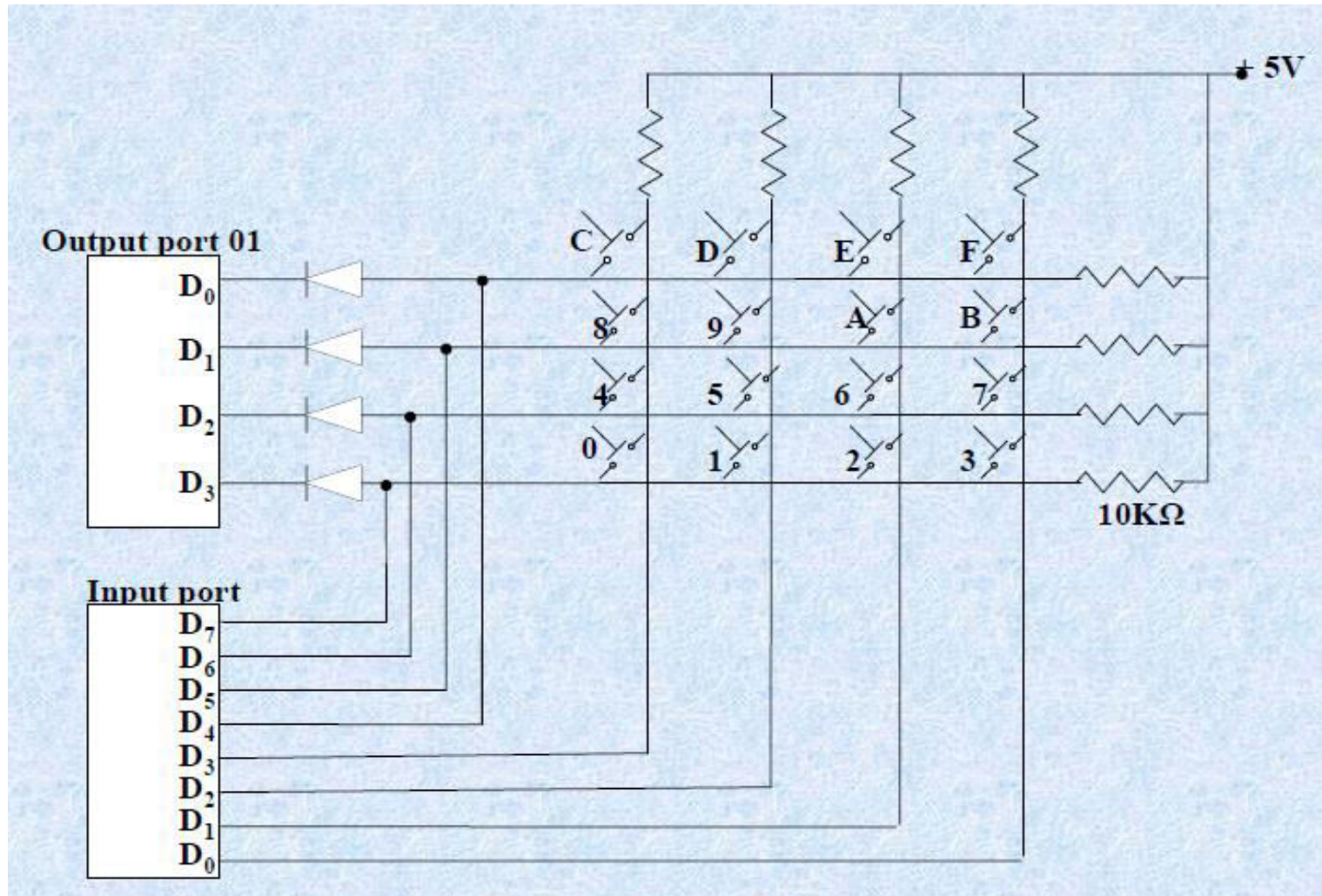
PROGRAM FOR KEYCHECK SUBROUTINE

KYCHK: IN PORT A
 CPI 0FFH
 JNZ KYCHK
 CALL DBOUNCE

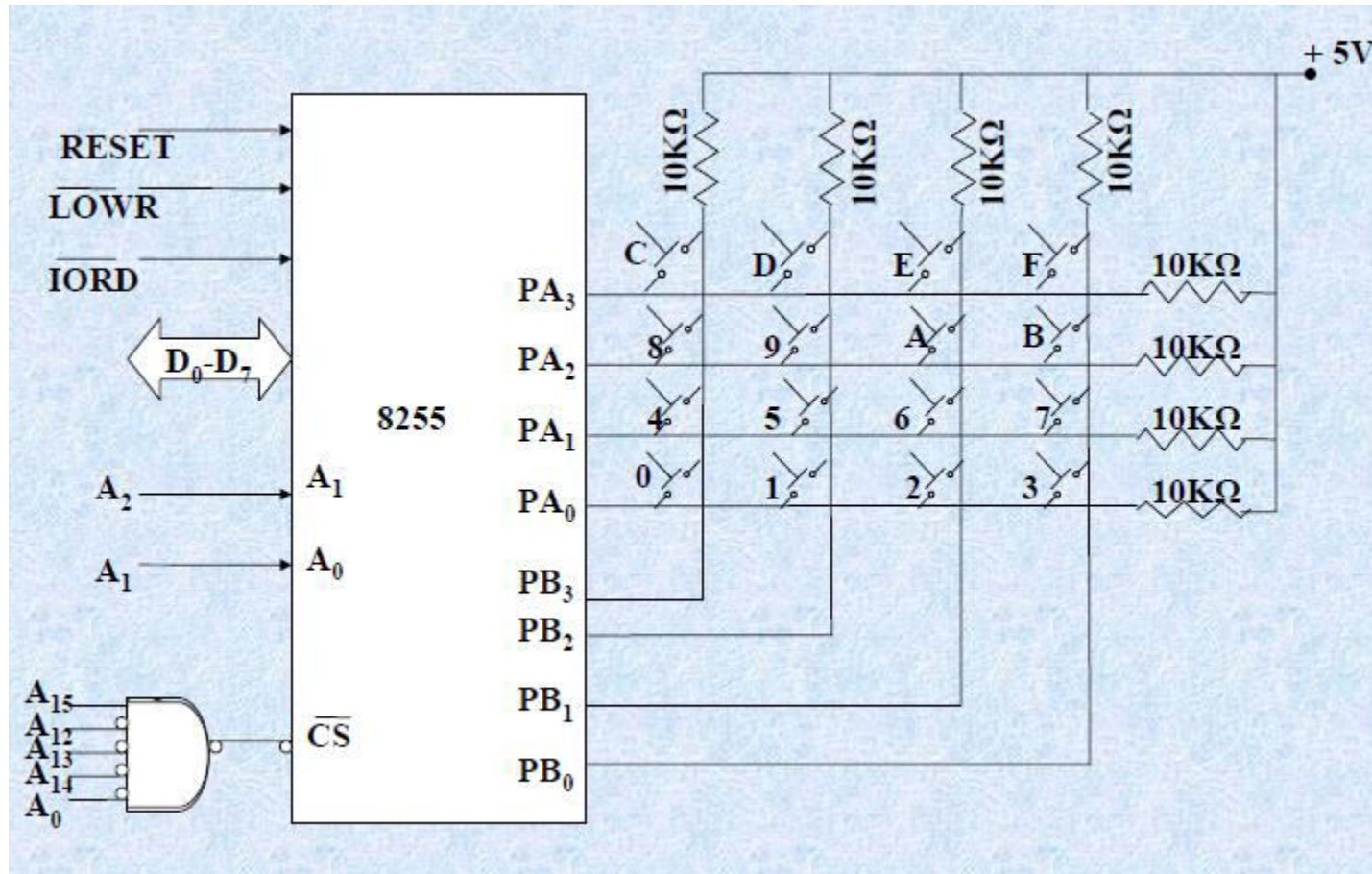
KYPUSH: IN PORT A
 CPI 0FFH
 JZ KYPUSH
 CALL DBOUNCE
 CMA
 ORA A
 JZ KYPUSH
 RET



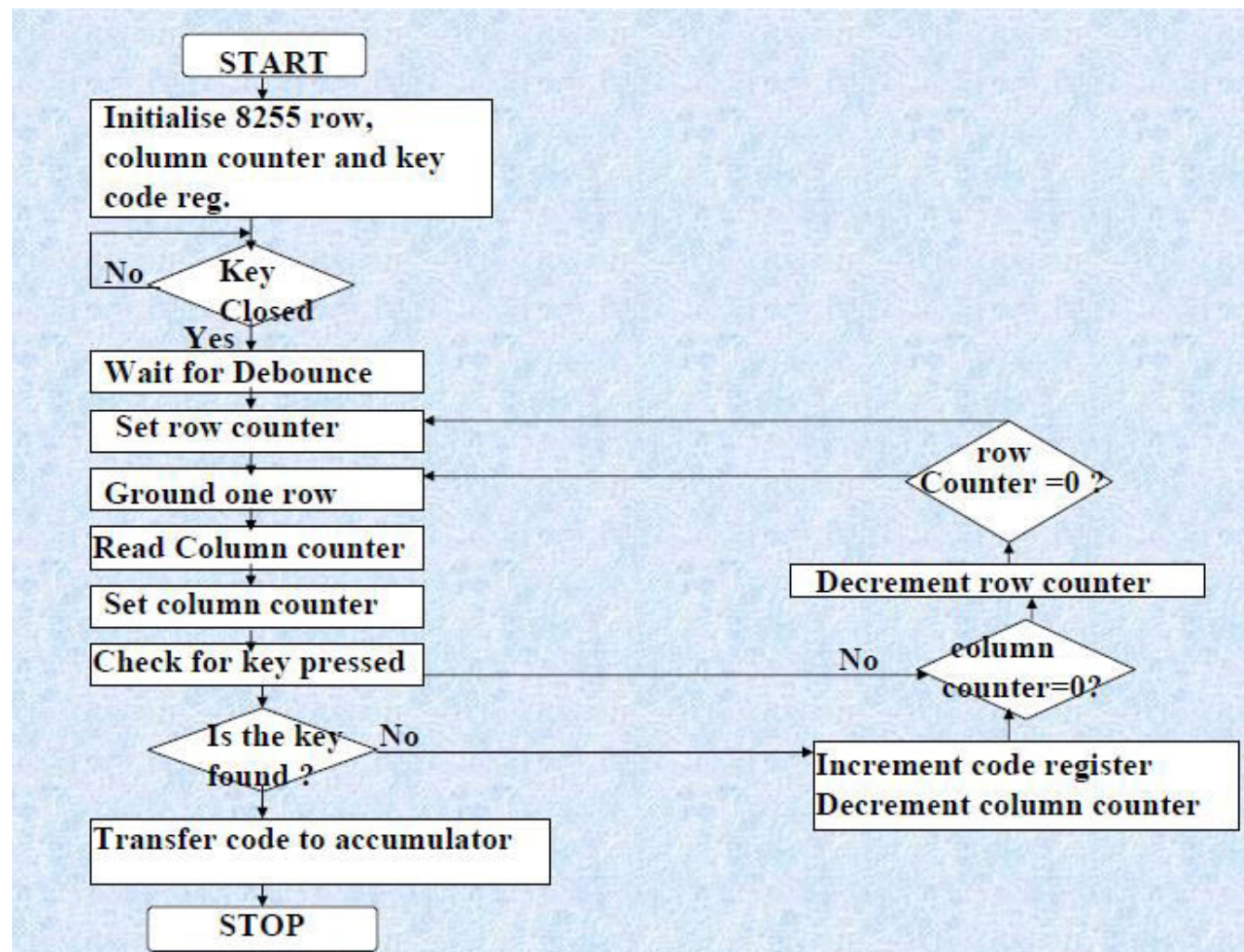
PORT CONNECTIONS



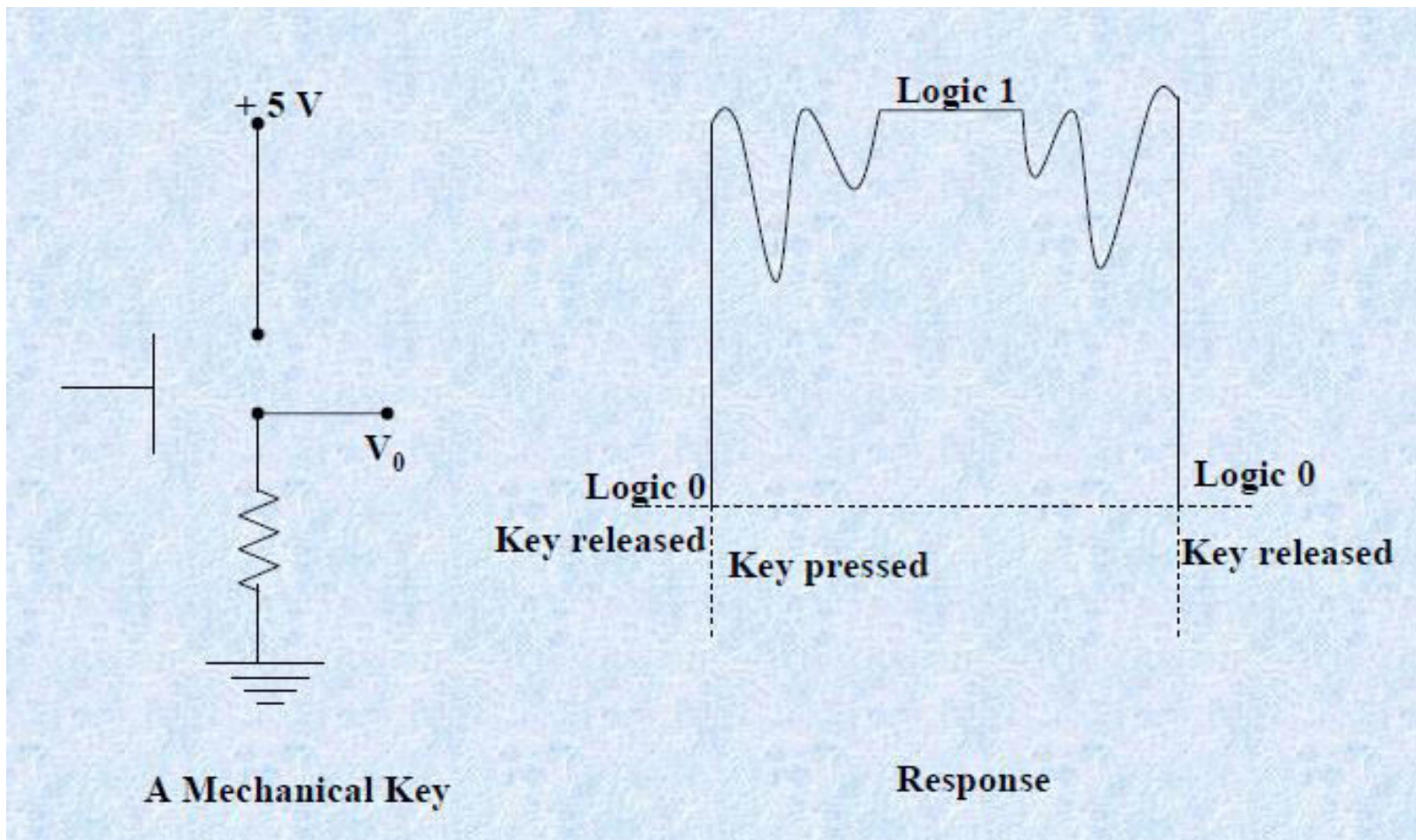
INTERFACING 4*4 KEYBOARD



FLOW CHART: KEYBOARD DEBOUNCE



PUSHBUTTON KEY & KEY DEBOUNCE



PROGRAM FOR KEY DEBOUNCE

```
DBOUNCE:      PUSH B
               PUSH PSW
               LXI B,COUNT
LOOP:         DCX B
               MOV A,C
               ORA B
               JNZ LOOP
               POP PSW
               POP BC
               RET
```



MAIN PROGRAM

KYBOARD:

PORT A	EQU FCH
PORT B	EQU FDH
CNWORD	EQU FFH
STACK	EQU 20 AFH
	LXI SP,STACK
PPI:	MVI A,CNWRD
	OUT CNTRL
NEXTKY:	CALL KYCHK
	CALL KYCODE
	CALL DSPLAY
	JMP NEXTKY

