**Assembly codes**

LIST P=16F877A

#INCLUDE <P16F877A.INC>

\_\_config \_CP\_OFF&\_WDT\_OFF&\_XT\_OSC

BANKSEL TRISB

CLRF TRISB

BANKSEL TRISC

CLRF TRISC

BANKSEL TRISA

MOVLW 0XFF

MOVWF TRISA

BANKSEL TRISD

MOVLW 0X00

MOVWF TRISD

BANKSEL TRISE

MOVLW 0XFF

MOVWF TRISE

CLRF PORTB

CLRF PORTC

CLRF PORTA

CLRF PORTD

CLRF PORTE

BSF PORTB,0;

BSF PORTB,1;

BSF PORTB,2;

BCF PORTB,3;

BCF PORTB,4;

BSF PORTB,5;

BCF PORTB,6;

BCF PORTB,7;

BSF PORTC,0;

BSF PORTC,1;

BSF PORTC,2;

BCF PORTC,3;

BCF PORTC,4;

BSF PORTC,5;

BCF PORTC,6;

BCF PORTC,7; 14

NOR

BTFSS PORTA,5;

GOTO OR

BTFSC PORTE,0;

GOTO OR

BTFSC PORTE,1;

GOTO OR

BTFSC PORTE,2;

GOTO OR

BSF PORTD,4; NOR İÇİN

OR

BTFSC PORTA,0;

GOTO NAND

BTFSS PORTA,1;

GOTO AND

BTFSS PORTA,2;

GOTO AND

BTFSS PORTA,3

GOTO AND

BSF PORTD,0; OR İÇİN

AND

BTFSC PORTA,0;

GOTO NAND

BTFSC PORTA,1;

GOTO NAND

BTFSC PORTA,2;

GOTO NAND

BTFSS PORTA,3

GOTO NAND

BSF PORTD,1; AND İÇİN

NAND

BTFSS PORTA,0;

GOTO XOR

BTFSS PORTA,1;

GOTO XOR

BTFSS PORTA,2;

GOTO XOR

BTFSC PORTA,3

GOTO XOR

BSF PORTD,2; NAND İÇİN 15

XOR

BTFSC PORTA,0;

GOTO BOZUK

BTFSS PORTA,1;

GOTO BOZUK

BTFSS PORTA,2;

GOTO BOZUK

BTFSC PORTA,3

GOTO BOZUK

BSF PORTD,3; XOR İÇİN

BOZUK

BSF PORTD,5; BOZUK

END