
```
1:  '*****
2:  'transfer data use USART          *
3:  '                                  *
4:  '*****
5:
6:      DEVICE 16F877A
7:      XTAL 20
8:
9:      ALL_DIGITAL TRUE
10:     CLRF TRISA
11:     BCF  TRISC.6
12:     BCF  TRISC.0
13:     BCF  TRISC.1
14:     PORTC=0
15:     SPBRG=129
16:     OPTION_REG=7
17:
18:     DECLARE KEYPAD_PORT PORTB
19:
20:     DIM    INDEX    AS BYTE
21:     DIM    RESULT   AS BYTE
22:     DIM    B1       AS BYTE
23:     DIM    B2       AS BYTE
24:     DIM    STORE    AS BYTE
25:     DIM    FLAG     AS BYTE
26:
27:     CLRF INDEX : CLRF RESULT : CLRF FLAG
28:     CLRF B1   : CLRF B2 : CLRF STORE
29:
30:     SYMBOL SPEN  = RCSTA.7
31:
32:     SYMBOL TX9   = TXSTA.6
33:     SYMBOL TXEN  = TXSTA.5
34:     SYMBOL SYNC  = TXSTA.4
35:     SYMBOL BRGH  = TXSTA.2
```

```
36:          SYMBOL TRMT  = TXSTA.1
37:
38:          SYMBOL HORN  = PORTC.0
39:
40:      '-----
41:          ON INTERRUPT GOTO MY_INT
42:
43:      '-----
44:  SET_VALVE:
45:
46:          SET      SPEN
47:          CLEAR   TX9
48:          SET      TXEN
49:          CLEAR   SYNC
50:          CLEAR   BRGH
51:          SET      INTCON.5
52:
53:
54:      '-----
55:  MAIN:
56:
57:          INDEX = INKEY
58:          RESULT = LOOKUP INDEX, [1,2,3,255,4,5,6,255,7,8,9,255,10,66,255,255]
59:          IF B2 > 1 THEN
60:              CLRF RESULT : CLRF B2
61:          ENDIF
62:          TXREG = RESULT
63:
64:          GOTO MAIN
65:      '-----
66:
67:          DISABLE
68:
69:  MY_INT:
70:
```

```
71:      IF RESULT <> STORE THEN
72:      SOUND HORN,[124,10]
73:      STORE = RESULT
74:      ENDIF
75:      INC B1
76:      IF B1 > 10 THEN
77:      INC B2 : CLRF B1
78:      ENDIF
79:      CLEAR INTCON.2
80:      RESUME
81:      ENABLE
82:
83:  END
```