

Lab-2

23L-6006

23L-6012

23L-6077

Q1

File Registers

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	ASC
000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
080	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...

Special Function Registers

Address	SFR Name	Hex
005	PORTA	0x00
006	PORTB	0x55
007	PORTC	0xAA
008	PORTD	0xFF
009	PORTF	0x00
00A	PCLATH	0x00
00B	INTCON	0x00
00C	PIR1	0x00
00D	PIR2	0x00
00E	TMR1	0x00
00F	TMR2	0x00

Q2

File Registers

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	ASC
000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
080	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...
0F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	...

Special Function Registers

Address	SFR Name	Hex
000	WREG	0x0F
001	INDF	...
002	TMR0	0x00
003	PCL	0x00
004	STATUS	0x19
005	FSR	0x00
006	PORTA	0x00
007	PORTB	0x55
008	PORTC	0xAA
009	PORTD	0xFF
00A	PORTF	0x00
00B	PORTG	0x00

Q3

lab2 - MPLAB IDE v8.10 - File Registers

File Edit View Project Debugger Programmer Tools Configure Window Help

Debug Checksum: 0xd837

Stimulus - [Untitled]

File	Pin / SFR	Action	Width	Units	Comments / Message
>	RC0	Set Low			
>	RC1	Set High			
>	RC2	Set High			
>	RC3	Set Low			
>	RC4	Set Low			
>	RC5	Set Low			
>	RC6	Set Low			
>	RC7	Set Low			

Advanced... Apply Remove Delete Row Save Exit Help

File Registers

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	ASC
000	--	00	0B	1B	00	00	06	06	FF	00	00	00	00	00	00	00	----
010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
040	00	06	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
080	--	FF	0B	1B	00	3F	00	FF	FF	07	00	00	00	00	--	----	
090	--	00	FF	00	00	--	--	02	00	--	--	--	00	00	--	----	
0A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
0B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
0C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
0D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
0E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----
0F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	----

Hex Symbolic

CA:\lab2.asm

```

LIST P=16F877
#include <P16F877.inc>

ORG 0x00
GOTO MAIN

MAIN:

    BANKSEL TRISC
    MOVW 0xFF
    MOVWF TRISC
    BANKSEL TRISA
    CLRF TRISA

    BANKSEL PORTC
    MOVF PORTC, 0

    MOVWF PORTB

END
    
```

Special Function Registers

Address	SFR Name	Hex
005	PORTA	0x00
006	PORTB	0x06
007	PORTC	0x06
008	PORTD	0xFF
009	ORTE	0x00
00A	PCLATH	0x00
00B	INTCON	0x00
00C	PIR1	0x00
00D	PIR2	0x00
00E	THR1	0x00
00F	THR2	0x00

Program Memory

Line	Address	Opcode	Disassembler
1	0000	2801	GOTO 0x1
2	0001	1683	BSF 0x3, 0x5
3	0002	1303	BCF 0x3, 0x6
4	0003	30FF	MOVLW 0xFF
5	0004	0087	MOVWF 0x7
6	0005	1683	BSF 0x3, 0x5
7	0006	1303	BCF 0x3, 0x6
8	0007	0186	CLRF 0x6
9	0008	1283	BCF 0x3, 0x5
10	0009	1303	BCF 0x3, 0x6
11	000A	0807	MOVF 0x7, W
12	000B	0086	MOVWF 0x6
13	000C	3FFF	
14	000D	3FFF	
15	000E	3FFF	
16	000F	3FFF	

Opcode Hex Machine Symbolic

MPLAB SIM PIC16F877 pc:0xb W:0x6 z DC C 20 MHz bank 0 WR

