

## Task 1

C:\Users\l236006\Documents\Untitled22.asm

```

LIST F=16F877
INCLUDE <P16F877.INC>
ORG 0x00
GOTC MAIN

MAIN:
MOVlw 0x07
MOVwf 0x11
MOVlw 0x72
MOVwf 0x21
MOVlw 0xD6
MOVwf 0x22
END

```

File Registers

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	ASCII
000	--	00	06	1B	00	00	00	00	00	00	00	00	00	00	00	00	-.....
010	00	07	00	00	00	00	00	00	00	00	00	00	00	00	00	00	-.....
020	00	72	D6	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	--	FF	06	1B	00	3F	FF	FF	FF	07	00	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	-.....

Program Memory

Line	Address	Opcode
1	0000	2801
2	0001	3007
3	0002	0091
4	0003	3072
5	0004	00A1
6	0005	30D6

Special Function Registers

Address	SFR Name	Hex
WREG	0xD6	
INDF		--
TMRO	0x00	
PCL	0x06	
STATUS	0x1B	
FSR	0x00	
PORTA	0x00	
PORTB	0x00	

Output Window:

- Warning[203] C:\USERS\l236006\DOCUMENTS\
- Warning[205] C:\USERS\l236006\DOCUMENTS\
- Loaded C:\Users\l236006\Documents\Untitled22.cc

Debug build of project 'C:\Users\l236006\Documents\Untitled22'. Preprocessor symbol '\_DEBUG' is defined. Thu Aug 28 12:04:57 2025

BUILD SUCCEEDED

## Task 2

mp.mcw

C:\Users\l236006\Documents\Untitled22.asm

```

ORG 0x00
GOTC MAIN

MAIN:
MOVlw 0x0A
MOVwf 0x20
MOVlw 0x05
MOVwf 0x21
MOVE 0x20, W
ADDWF 0x21, W
MOVWF 0x22
MOVlw 0x08
SUBWF 0x21, W
MOVWF 0x23
END

```

File Registers

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	ASCII
000	--	00	0A	18	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	0A	05	0F	FD	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	--	FF	0A	18	00	3F	FF	FF	FF	07	00	00	00	00	--	-.....?	-.....-
090	--	00	FF	00	00	--	--	--	02	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	-.....
100	--	00	0A	18	00	--	00	--	00	00	00	00	00	00	00	00	-.....- - - - -

Program Memory

Line	Address	Opcode
10	0009	0221
11	000A	00A3
12	000B	3FFF
13	000C	3FFF
14	000D	3FFF
15	000E	3FFF

Special Function Registers

Address	SFR Name	Hex
WREG	0xFD	
INDF		--
TMRO	0x00	
PCL	0xA0	
STATUS	0x18	
FSR	0x00	
PORTA	0x00	
PORTB	0x00	
PORTC	0x00	
PORTD	0x00	
PORTE	0x00	

Output Window:

- Debug build of project 'C:\Users\l236006\Documents\mp.mc'.
- Preprocessor symbol '\_DEBUG' is defined.
- Thu Aug 28 12:24:35 2025

BUILD SUCCEEDED

## Task 3

