1. Identify the addressing mode used in each of the following instructions:

   a) IORLW   0x0F
   b) BSF   REG1,7
   c) MOVF   PORTB,W

2. Identify the contents of WREG, REG2, and the status of the flags as the following instructions are executed by the PIC18F MCU.

		WREG	REG2	N	OV	Z	C
		B4	82	0	0	0	1
MOVLW	0x2A						
IORWF	REG2,F						
BCF	WREG,3						

3. Calculate the next value of the Program Counter (PC) for the following instruction:

Addr	Opcode	Operand
003A	BN	0xF8

   a) if N = 0.
   b) if N = 1.

4. Determine the Hex machine code for the following assembly language instructions:

   a) BTFSC   0x3F,1
   b) SUBWF   PORTA,W