

## ① Addressing Mode

- a) IORLW 0x0F · Immediate (Literal)
- b) BSF REG1, 7 · Direct (File)
- c) MOVF PORTB, W · Direct (File)

## ②

	WREG	REG2	N	OV	Z	C
	B4	82	0	0	0	1
MOVLW 0x2A	2A	82	0	0	0	1
IORWF REG2, F	2A	AA	1	0	0	1
BCF WREG, 3	22	AA	1	0	0	1

## ③ Addr Opcode Operand

003A BN 0xF8 11111000 = -8

a)  $N=0$  No Branch  $PC = PC + 2 = 003C$

b)  $N=1$  Branch  $PC = PC + 2 + 2 \times (-8) = 002C$

## ④ Machine Code (Hex)

a) BTFSCL 0x3F, 1 1011 0010 0011 1111  
B 2 3 F<sub>H</sub>

b) SUBWF PORTA, W 0101 1100 1000 0000  
5 C 8 0<sub>H</sub>