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#include <p18f458.h>

#define SW PORTDbits.RD7    // Define SW as the pin RD7
#define ENABLE PORTBbits.RB0 // Define ENABLE as pin RB0
#define MTR_1 PORTBbits.RB1  // Define MTR_1 as pin RB1
#define MTR_2 PORTBbits.RB2  // Define MTR_2 as pin RB2

void main() {
    TRISD = 0x80; // Make RD7 an input pin
    TRISB = 0x00; // Make PORTB output

    SW = 1;
    ENABLE = 0;
    MTR_1 = 0;
    MTR_2 = 0;

    while (1) {
        ENABLE = 1;
        if (SW == 1) {
            MTR_1 = 1;
            MTR_2 = 0;
        } else {
            MTR_1 = 0;
            MTR_2 = 1;
        }
    }
}

```