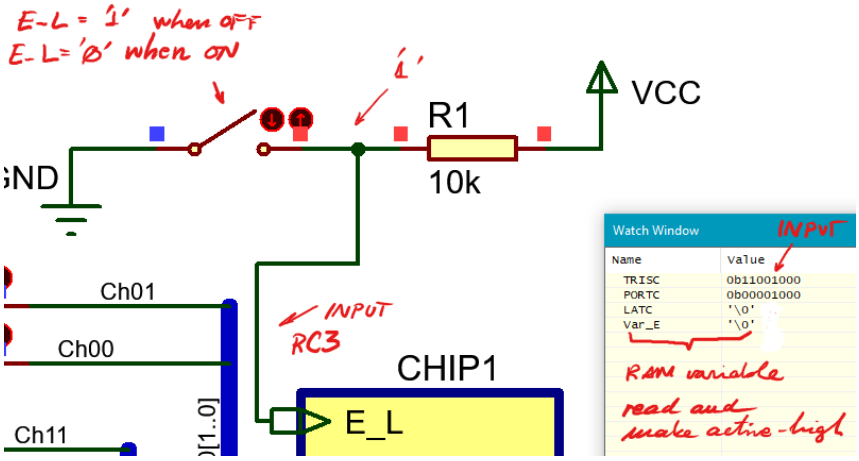
PROGRAMMING TRIS REGISTER TO SET PIN DIRECTIONS

There is the switch to input data and TRISC3 ='1', meaning that the RC3 pin is INPUT. Reading function works right:

TRISC3 = '1' –> RC3 is input

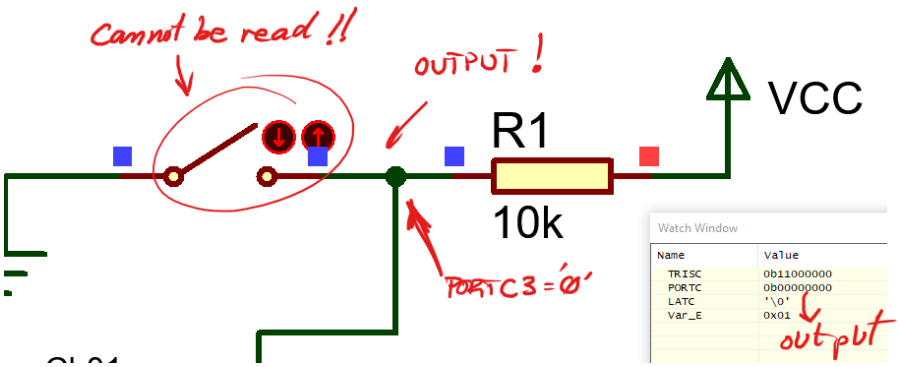
```
    PORTC    = 0x00; // Reset all Flip-Flops at PORTC
    LATC     = 0x00;
    TRISC    = 0b11001000; // RC7, RC6 and RC3 are inputs
                           // RC3 is E_L input
```



Let us simulate an error when configuring TRISC3: there is the switch as input circuit but TRISC3 is ='0' (meaning that it is output!!) . The switch cannot be polled and reading DO NOT work.

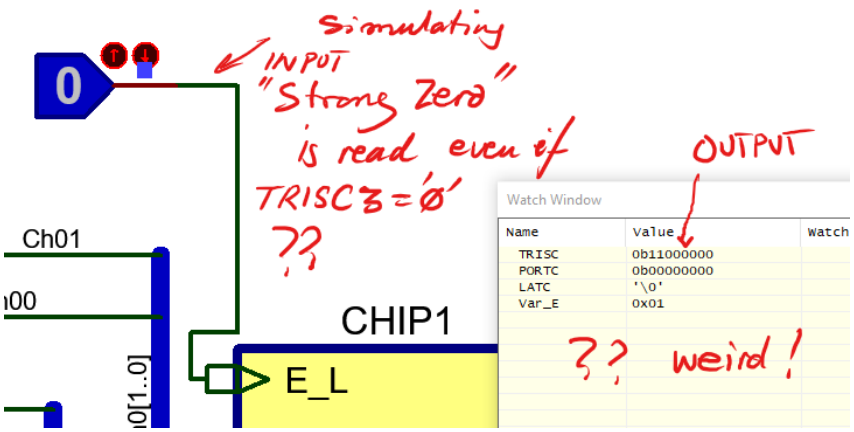
```
    PORTC    = 0x00; // Reset all Flip-Flops at PORTC
    LATC     = 0x00;
    //TRISC      = 0b11001000; // RC7, RC6 and RC3 are inputs
                             // RC3 is E_L input
// Let's simulate an error configuring RC3 as output when it is an input:
    TRISC    = 0b11000000;
```

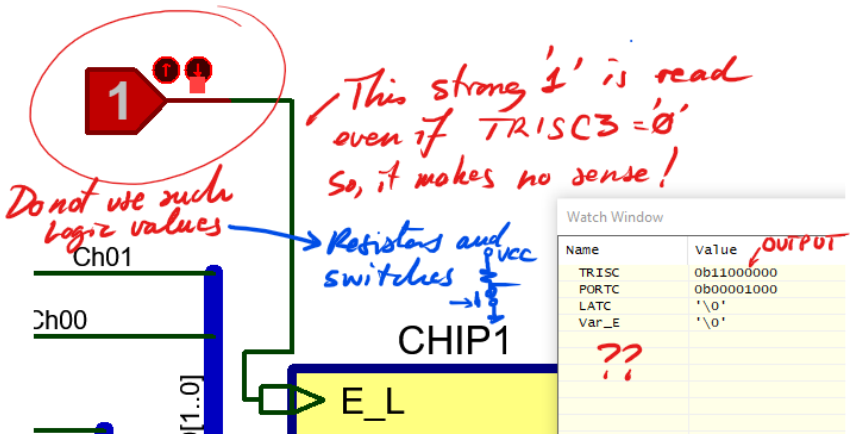
'0' → output TRISC3 ='0' → error !



IMPORTANT NOTE

Be careful with I/O when implementing the hardware circuit: DO NOT USE STRONG '1' and STRONG '0' (LOGIC STATE symbol) as inputs because TRIS values do not work correctly. For example:





If you use LOGIC STATE as inputs, be aware that TRIS register will seem that is not working properly.

Use resistors and switches or buttons to set *real* digital inputs