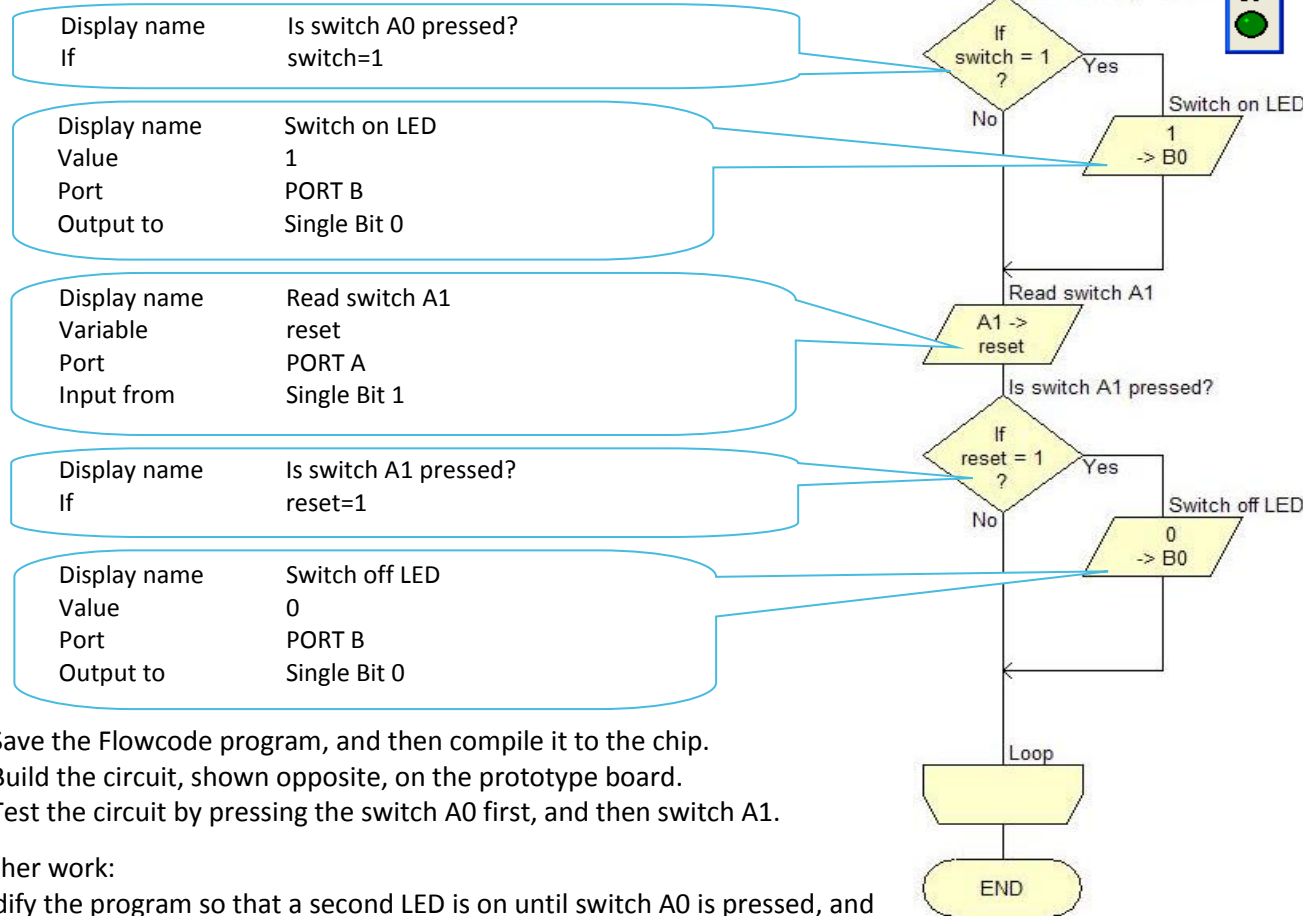


4 Set up a latch.

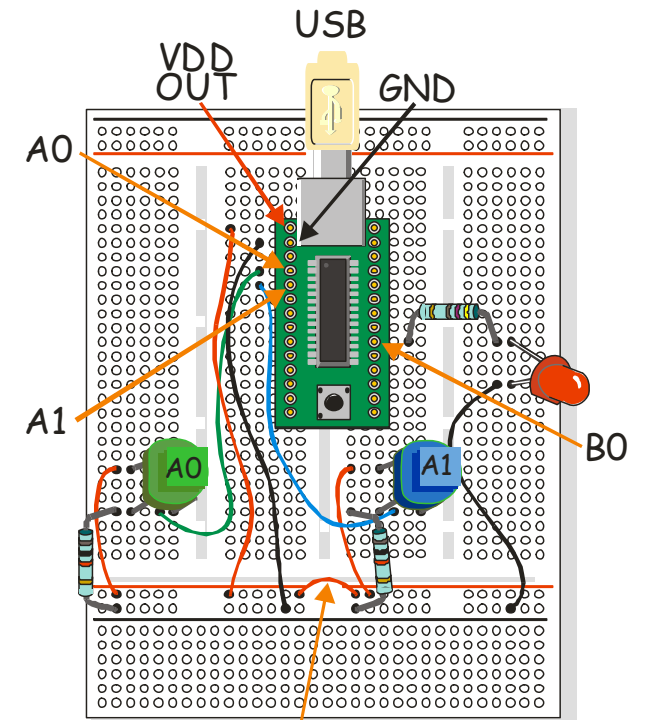
1. Build the Flowcode program.
2. Connect the Switch Unit to PORT A, and create a push-to-make switch, connected to Port A0, and a second one connected to A1.
3. Connect the LED Unit to PORT B, and create one LED, connected to Port B0.
4. Configure the Loop icon and first Input icon as in previous programs, and set up the other components as follows:



5. Save the Flowcode program, and then compile it to the chip.
6. Build the circuit, shown opposite, on the prototype board.
7. Test the circuit by pressing the switch A0 first, and then switch A1.

Further work:

Modify the program so that a second LED is on until switch A0 is pressed, and then lights again when switch A1 is pressed.



Bridging wire for positive power rail

Circuit notes:

- Make sure that the LED is plugged in the right way round!
- The LED is protected by a 470Ω resistor.
- The switches form voltage dividers with the 1kΩ resistors.
- The flat edge of each switch is on the side in the diagram.