

# 1 Switch on the LED

1. Build the Flowcode program.
2. Connect the LED Unit to PORT B and create one LED, connected to Port B0.
3. Configure the components as follows:

Display name	Repeat
Loop while	1
Test Loop at the	Start

Display name	Read the switch
Variable	switch
Port	PORT A
Input from	Single Bit 0

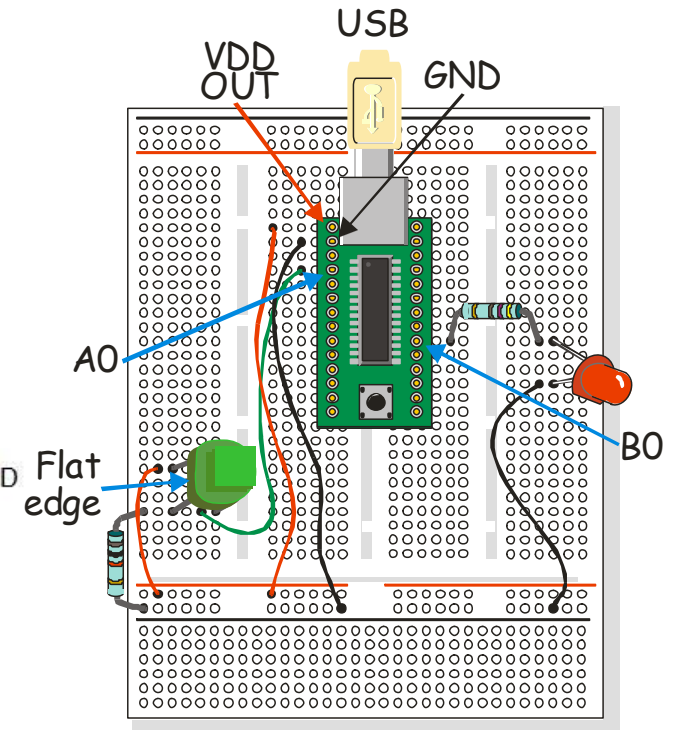
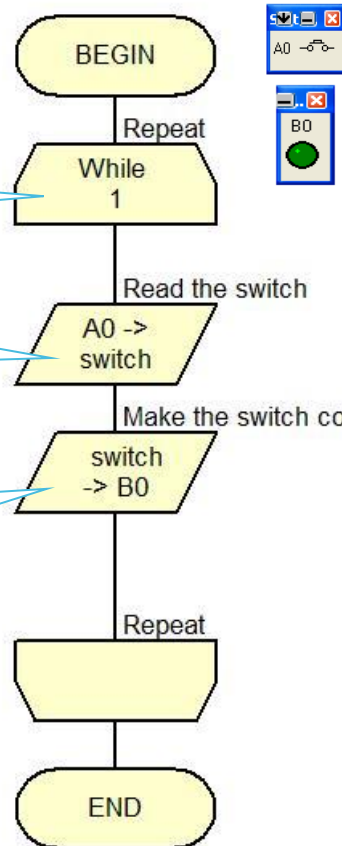
  

Display name	Make the switch control the LED
Variable	switch
Port	PORT B
Output to	Single Bit 0

4. Save the Flowcode program, and then compile it to the chip.
5. Build the circuit, shown opposite, on the prototype board.

Further work:

Modify the program so that the switch lights two LEDs, connected to Port B0 and Port B1.



Circuit notes:

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