Oide

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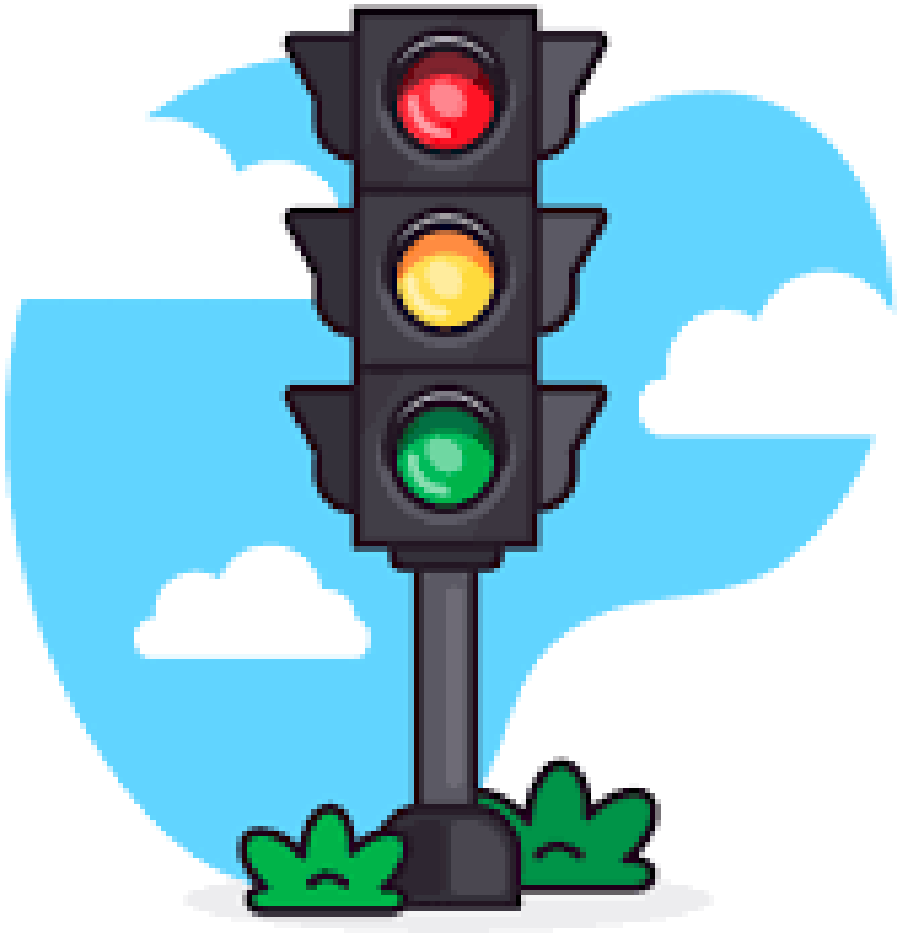
Supporting the Professiona Learning of School Leaders and Teachers

Session 3

Traffic Lights



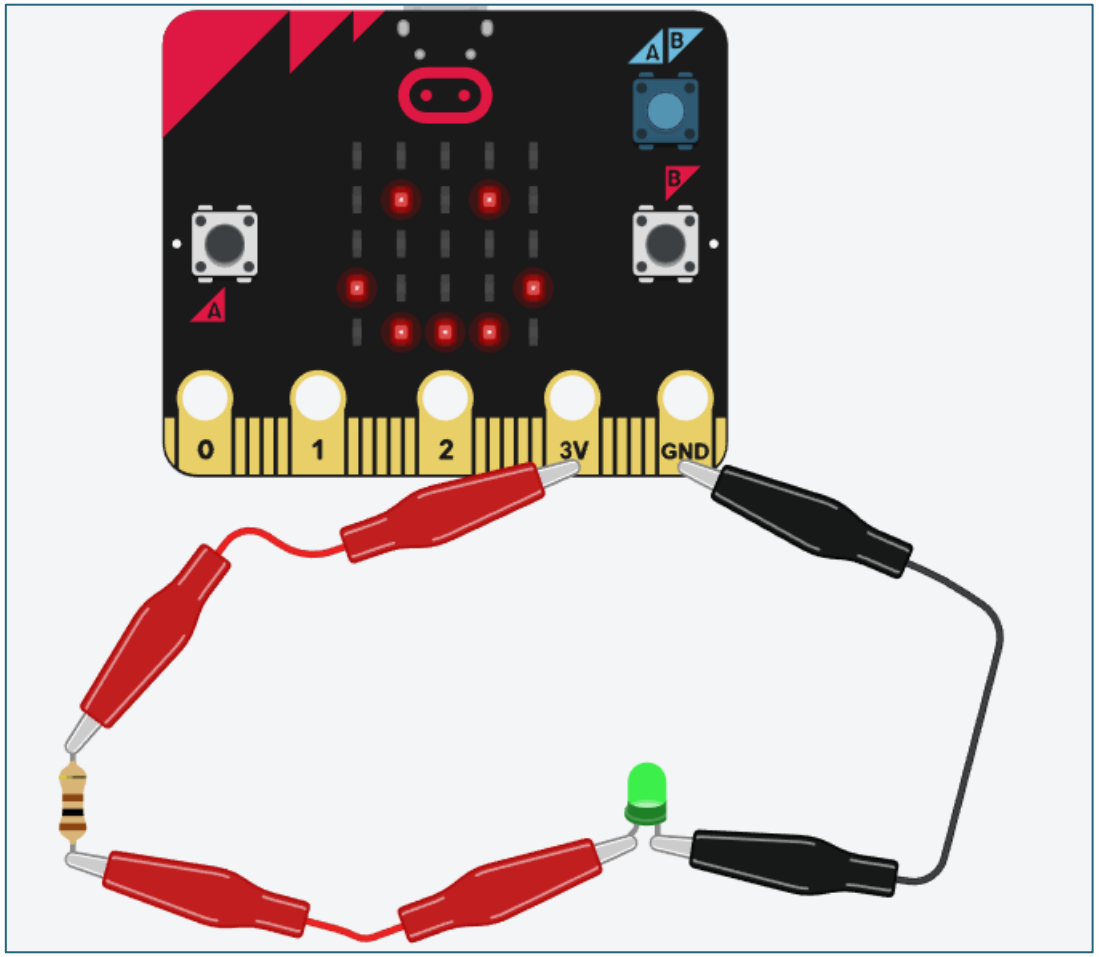
CC BY NC

Building circuits with the micro:bit

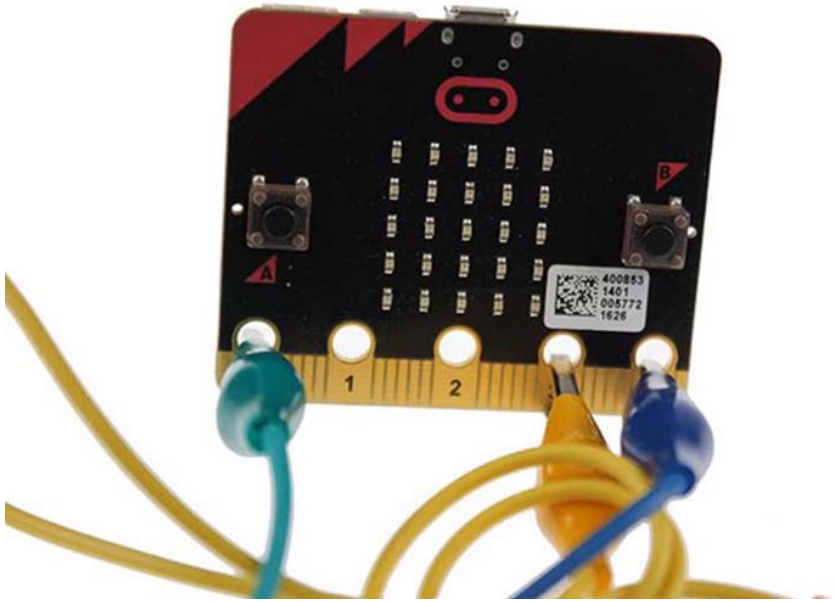
We will…

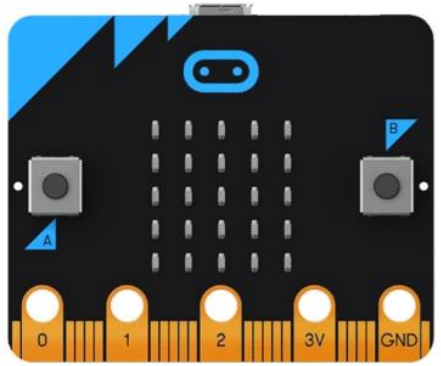
- Learn about simple circuits
- Learn how to control digital outputs on the micro:bit
- Learn how to wire up the digital outputs on the micro:bit

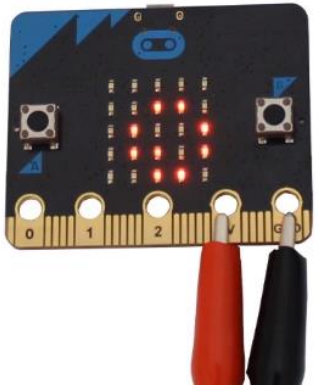
Connecting an LED



Connecting crocodile clips



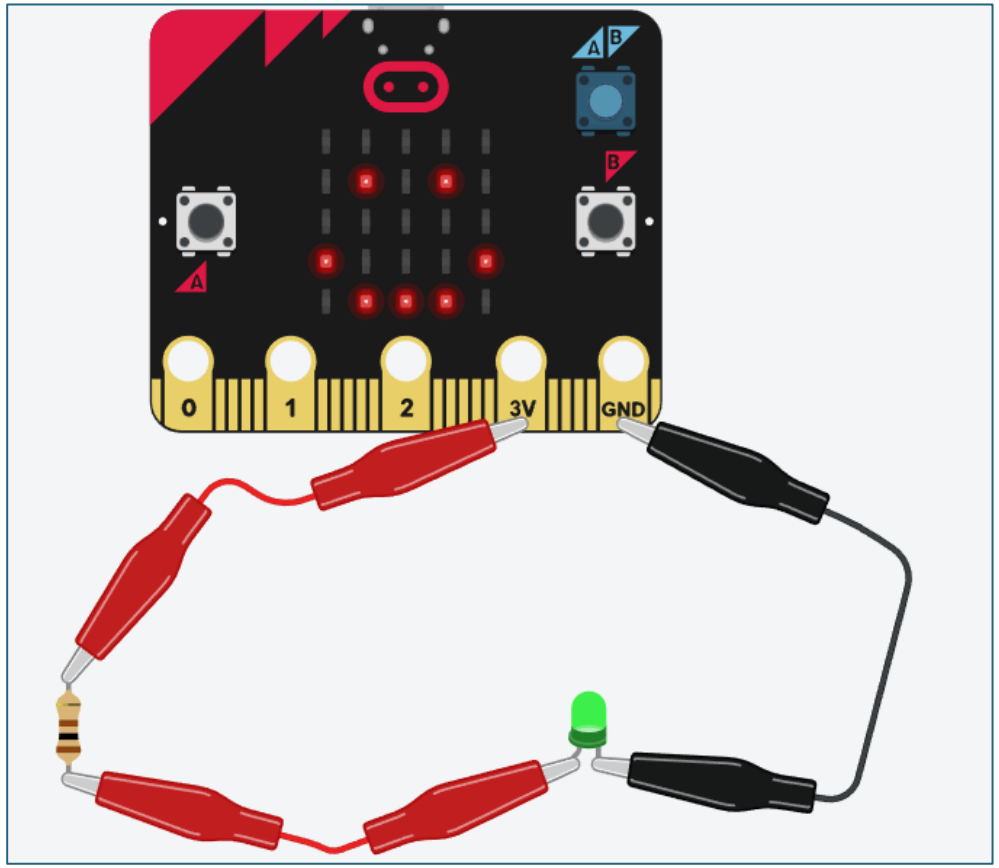




Build your circuit

You will need

- Micro:bit
- Crocodile clips
- LED
- Resistor

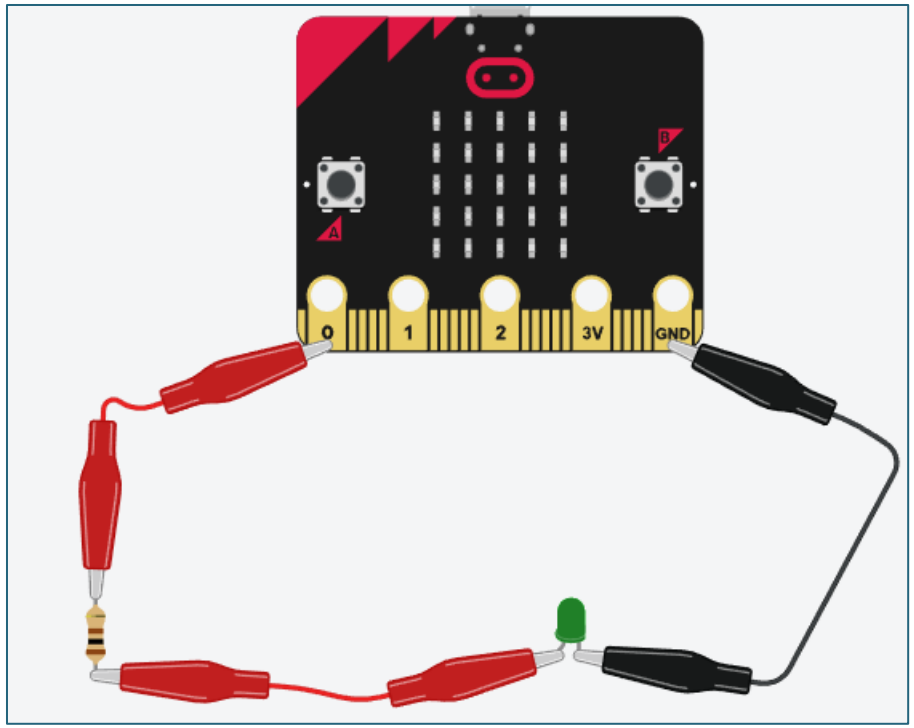


How can we turn the LED on and off?

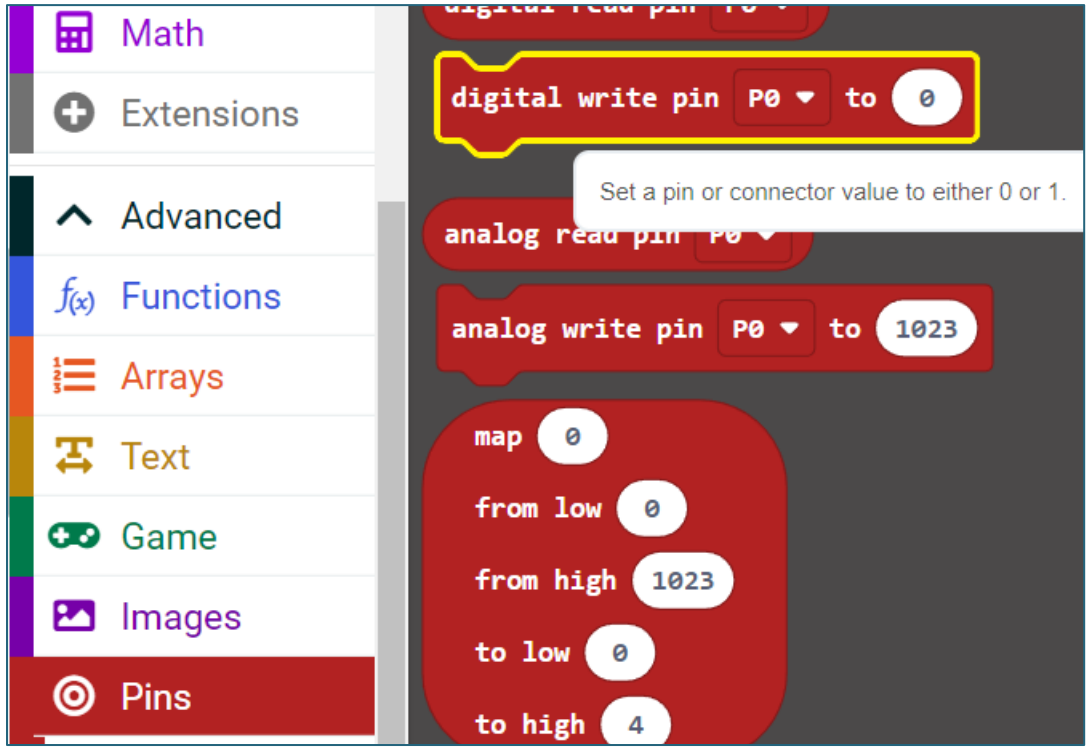
How can we CONTROL the LED?

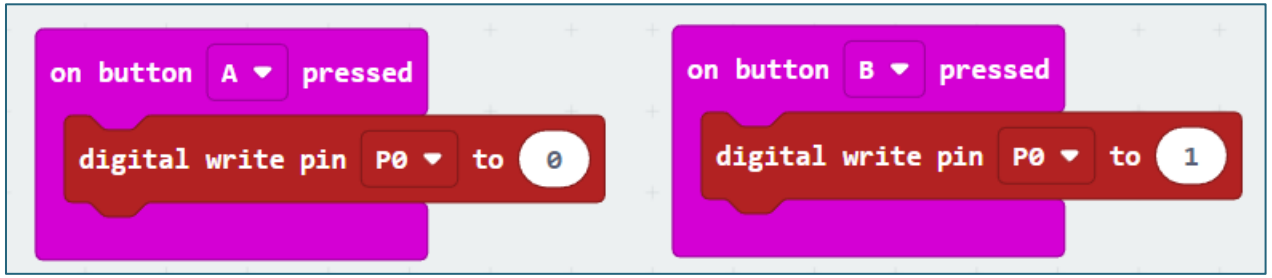
Controlling an LED

General Purpose Input Output (GPIO) pins
0, 1, 2



Write a program to control the LED





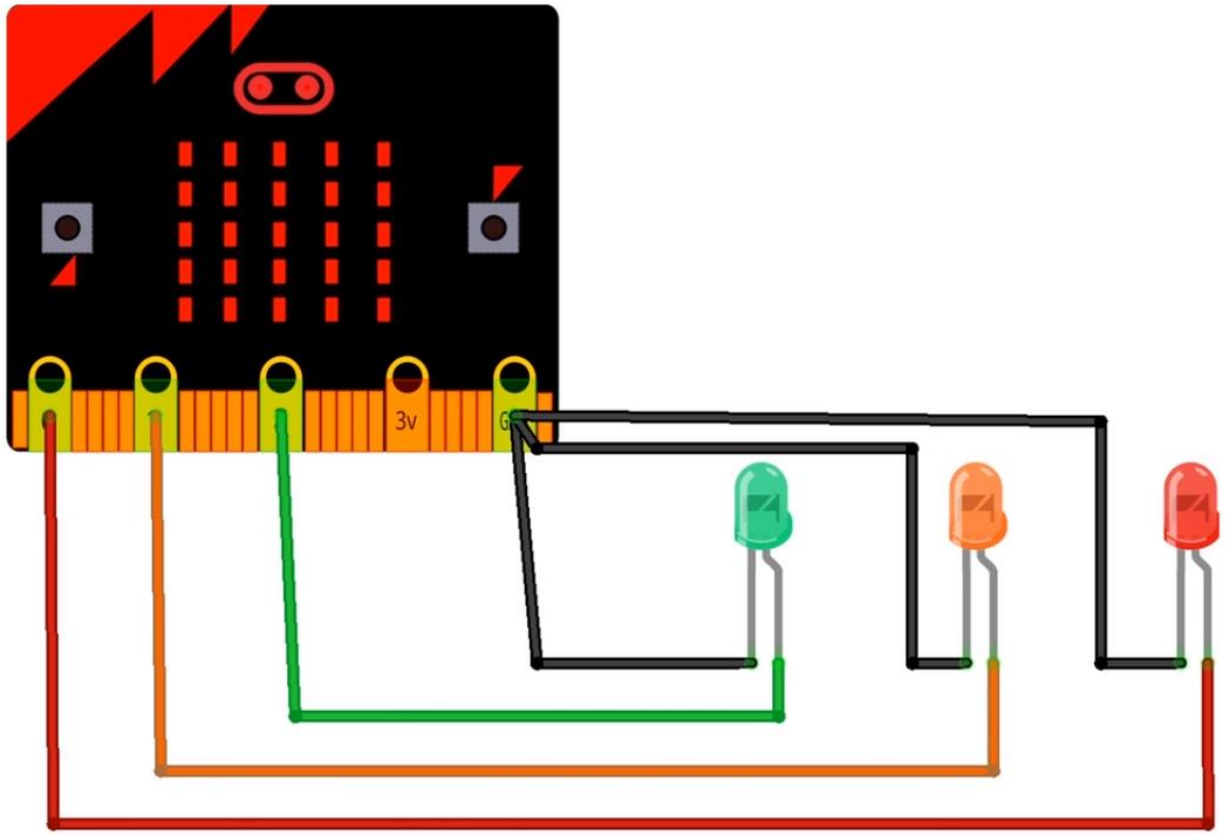
Traffic lights problem

How do the traffic lights at a pedestrian crossing work?

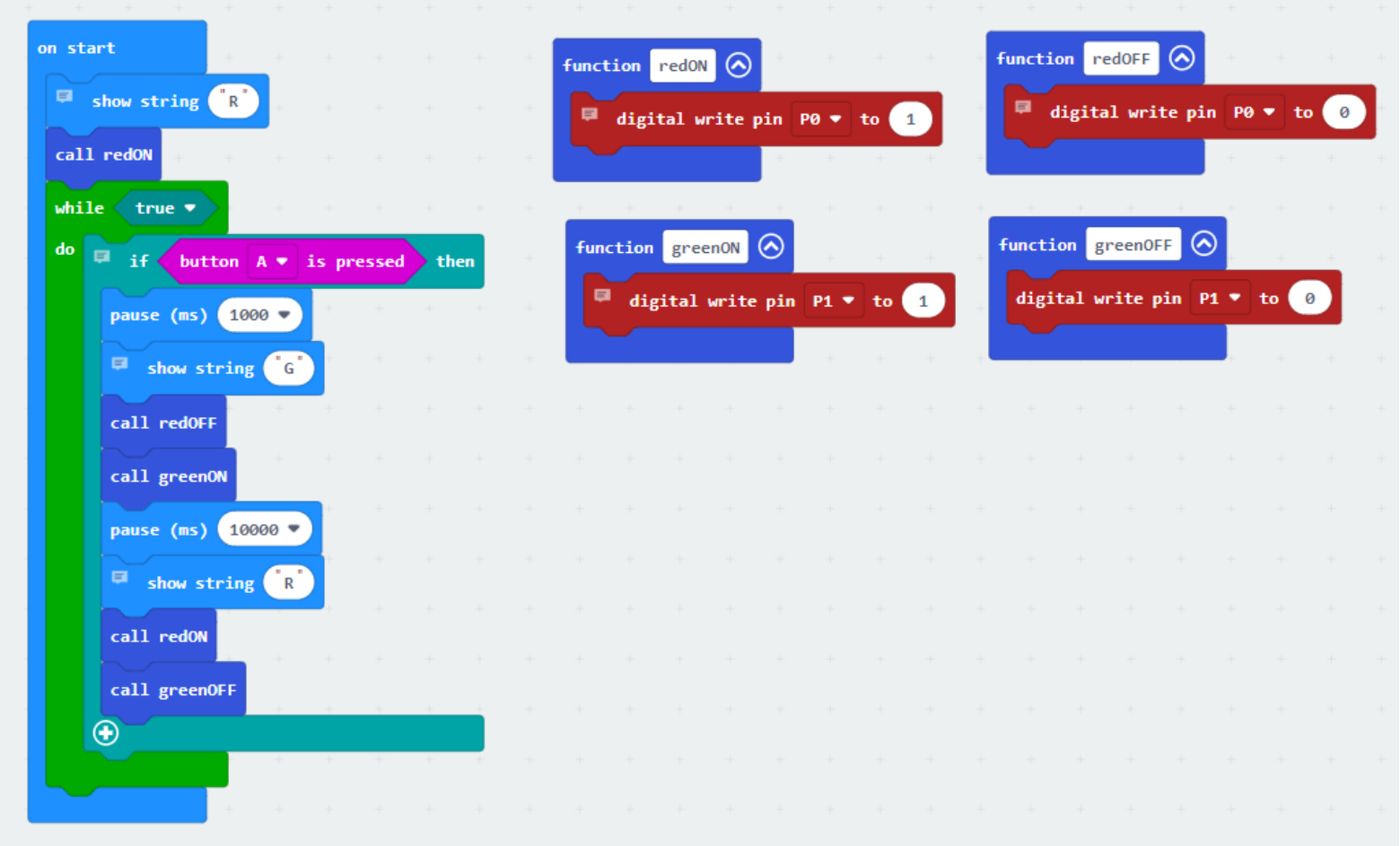
Explain the steps one by one

Any issues that might arise?

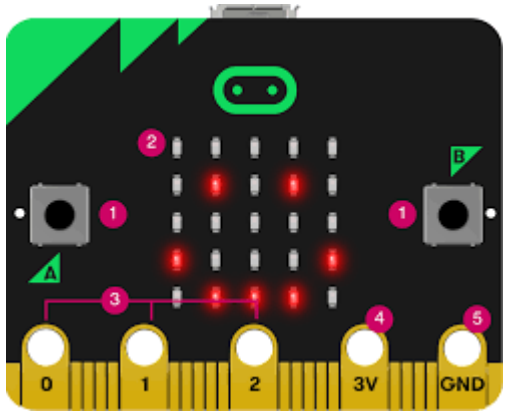
Traffic Lights



Suggested solution



Micro:bit kits



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Department of Education

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