

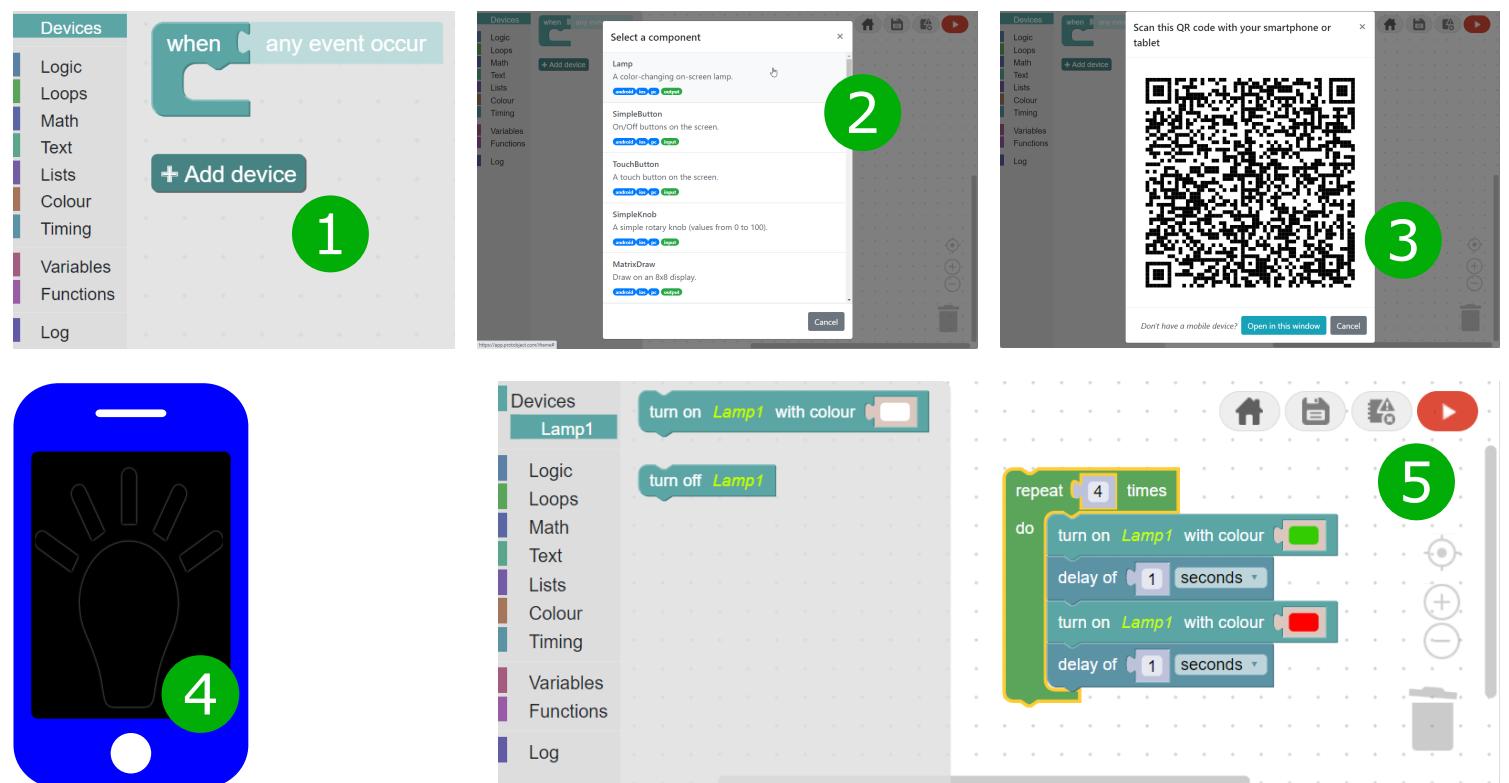


Teaching computational thinking with Protobject

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The Platform

Protobject is a versatile web platform designed to teach **computational thinking**. It allows rapid prototyping by utilizing **smartphones as multipurpose devices**, acting as *sensors* to detect environmental changes and as *actuators* to introduce changes.



Protobject allows users to (1) incorporate multiple devices, including a (2) lamp, into the prototype. After adding a device, a corresponding QR code (3) is generated, which can be scanned with a smartphone. Scanning the QR code displays the lamp (4) on the screen, enabling programming through Blockly (5).

Learning Scenarios

