

Project 16: LED Blinks and Breathes

Overview

In this project, we combine the project 2 and project 3. You will learn how to control the LED on the module blink for twice, then breath for twice, circularly. This time we use keyestudio 3W LED module, which has high brightness and can be used as illumination.

Component Required:

- Micro:bit main board*1
- Keyestudio Micro bit Sensor V2 Shield*1
- USB Cable*1
- Keyestudio 3W LED Module*1
- Dupont jumper wires
- Premium Battery Holder 6-cell AA*1
- 1.5V AA Battery*6



Component Introduction

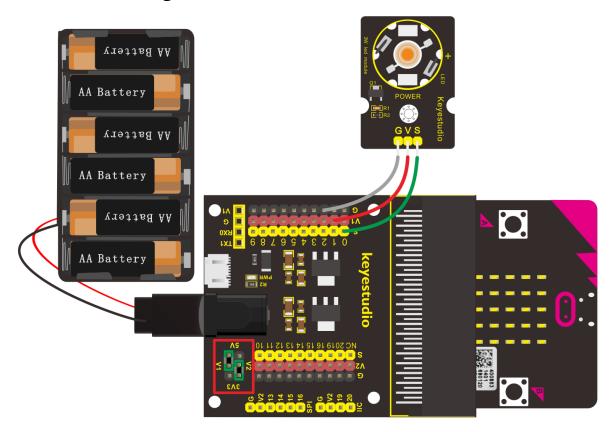
Keyestudio 3W LED Module:

This LED module is of high brightness because the lamp beads it carries is 3w. You can apply this module to Arduino or other projects, ideal for Robot or search and rescue application. For example, intelligent robots can use this module for illumination purpose.

Please note that the LED light can't be exposed directly to human eyes for safety concerns.

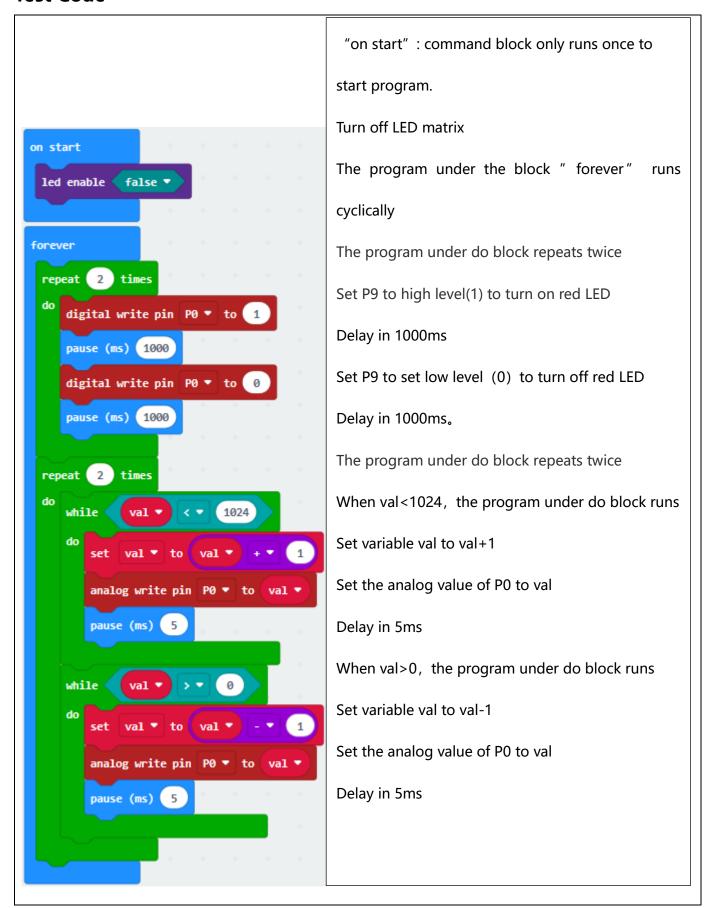


Connection Diagram





Test Code



Test Results: Done wiring and powered up, send the code to micro:bit, you should see the LED on the module firstly blink twice, then breath twice, circularly.