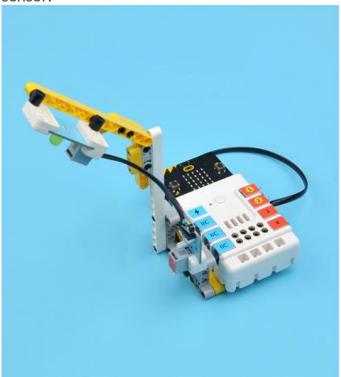
5. Case 04: Mini Table Lamps

5.1. Introduction

Use micro:bit to make a mini desk lamp, and control the LED light to turn on or off through a crash sensor.



5.2. Quick Start Materials Reugired

Nezha expansion board × 1

micro:bit × 1

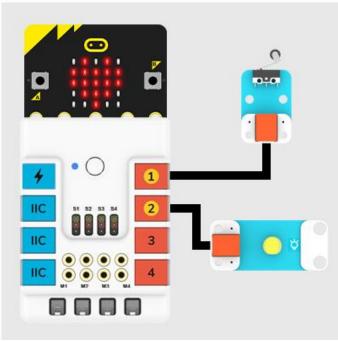
LED-yellow × 1

Crash sensor × 1

RJ11 wires × 2

Connection Diagram

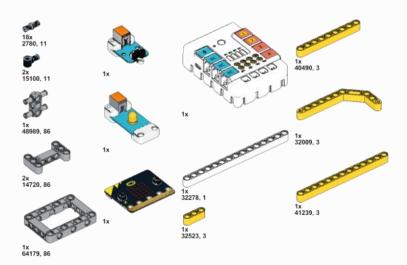
Connect the crash sensor to J1 and the yellow LED to J2 on the Nezha expansion board as the picture shows.



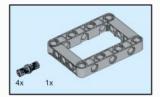
Assembly Video

Video reference: https://youtu.be/BBP1Nx6t090

Assembly Steps

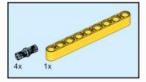


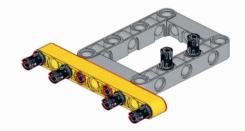


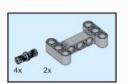


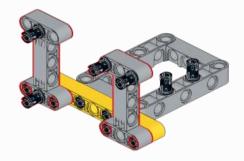


2



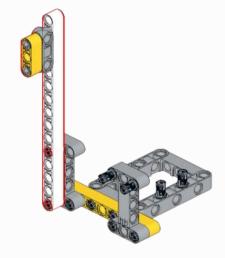




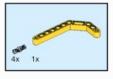






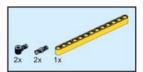








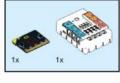








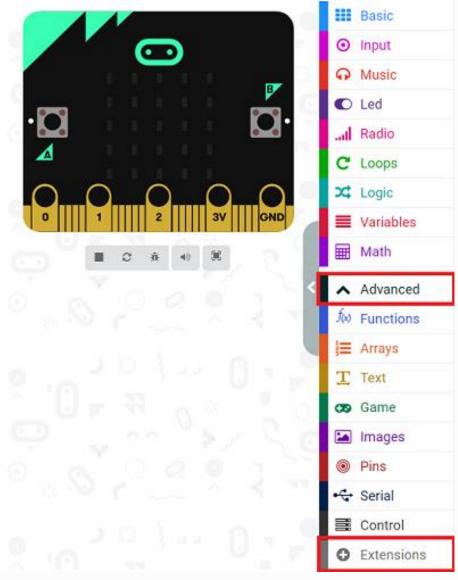




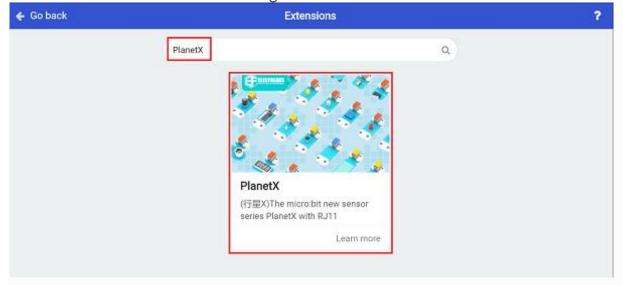


5.3. MakeCode Programming Step 1

Click "Advanced" in the MakeCode to see more choices.



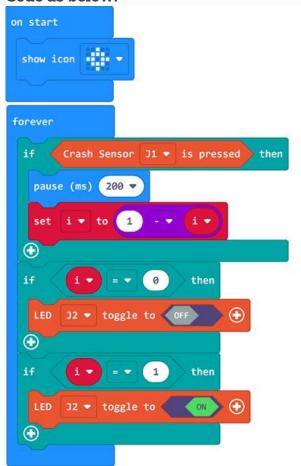
For programming, we need to add a package: click "Extensions" at the bottom of the MakeCode drawer and search with "PlanetX" in the dialogue box to download it.

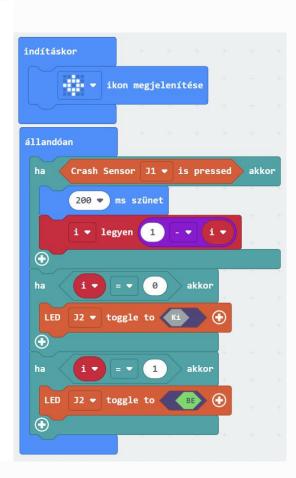


Notice: If you met a tip indicating that some codebases would be deleted due to incompatibility, you may continue as the tips say or create a new project in the menu.

Step 2

Code as below:





Reference

Link: https://makecode.microbit.org/ J9Lc271kpHiD

You may also download it directly below:

Result

The crash sensor controlls the on/off of the LED.

