

Getting Started With JavaScript Blocks: Flashing Heart

Flashing Heart

Overview

The seventh project builds upon using the LED screen but send the message wireless to a second micro:bit.

Step by step

A step by step guide is given at <https://pxt.microbit.org/projects/flashing-heart>

.hex File

Final version of the .hex file called "07 Flashing Heart.hex"

POS Reference

Designs simple algorithms using loops, and selection i.e. if statements. (AL)

Uses logical reasoning to predict outcomes. (AL)

Detects and corrects errors i.e. debugging, in algorithms. (AL)

Creates programs that implement algorithms to achieve given goals. (AL)

Understands that programming bridges the gap between algorithmic solutions and computers.(AB)

Understands data transmission between digital computers over networks, including the internet i.e. IP addresses and packet switching. (AL) (AB)

I can statements

The students can:

- Understand data can be transfer between micro:bits using "packets" of data
- Create a forever loop sending a pack of data to a second micro:bit

Challenges

A number of challenges could be based upon this basic task.

- Send a written message to the second micro bit.
- Allow the user to choose a picture and send it to the second
- Allow a third micro:bit to send and receive data

Next Steps

Lesson 8 uses the input pins of the micro:bit to control the screen.