ICP8

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MonkeyCanCode edited this page on Mar 15 · 2 revisions

Source

Video

Introduction

For ICP 8, we are learning more about Raspberry Pi and how to integrate Arduino with Raspberry Pi.

Objectives

The object for this ICP is for us to learn how to talk with Ardunio with Raspberry Pi and learn how to use Raspberry Pi.
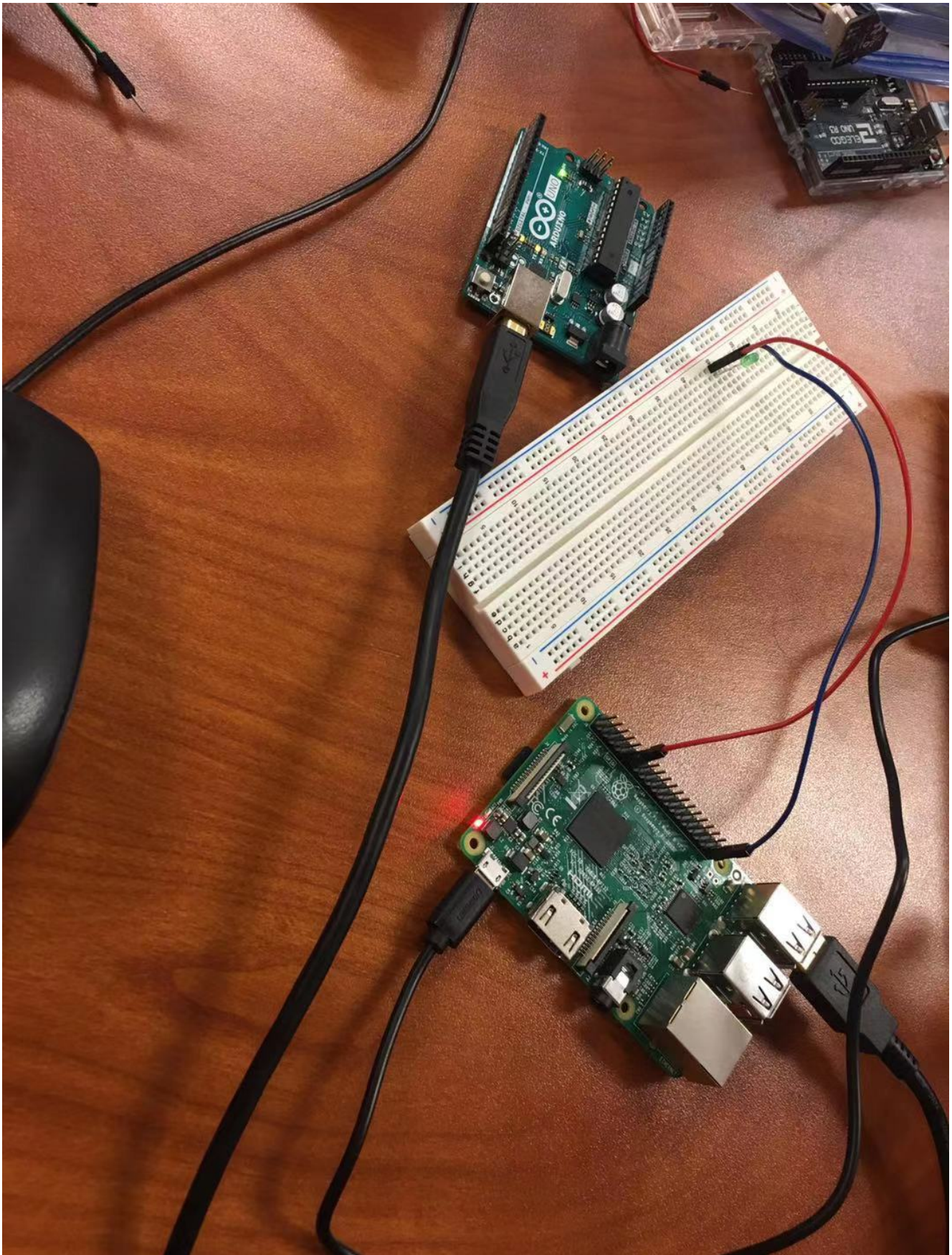
Approaches/Methods

1. Setup Raspberry Pi
2. Create circuit board with LED light and Raspberry Pi
3. Connect Raspberry Pi with Arduino and receive message from Arduino
4. Send tweet from Raspberry Pi

Workflow

1. Start Raspberry Pi
2. Connect pin from Raspberry Pi to breadboard and connect to LED light
3. Start Python program and blink the LED light
4. Connect Raspberry Pi with Arduino

5. Start Python program and receive message from Arduino after Raspberry Pi send echo message over

6. Start Python program and send tweet from Raspberry Pi

Diagram

Parameters

None

Evaluation & Discussion

This ICP is an introduction for how to link Raspberry Pi to Arduino and how to how to retrieve messages back from Arduino.

Conclusion

For this ICP, I got to play with more features in Raspberry Pi and linked it to Arduino and run some simple python scripts.

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