ICP6

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MonkeyCanCode edited this page on Mar 1 · 3 revisions

Source

Video

Introduction

For ICP6, I created two custom Node-RED nodes and link Arduino to Node-RED.

Objectives

The objective for this ICP is to learn how to create custom node in Node-RED and how to send message/signal to Arduino.

Approaches/Methods

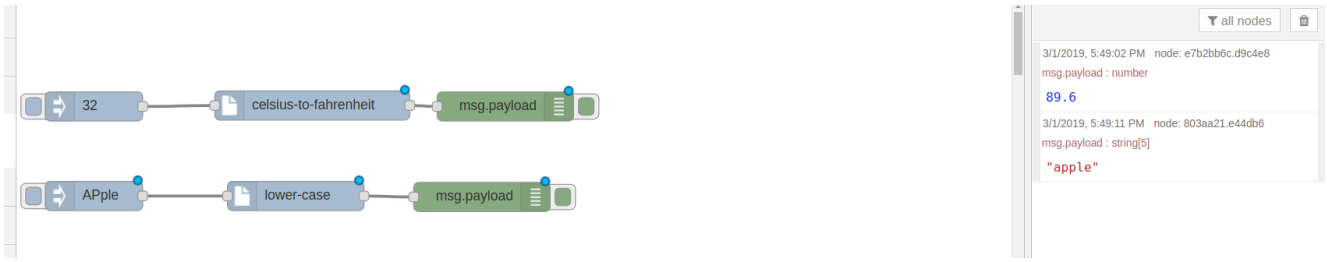
1. Create lower-case node with source code from class
2. Add lower-case node to the flow and test
3. Create celsius-to-fahrenheit node
4. Add celsius-to-fahrenheit to the flow and test
5. Link Arduino with Node-RED with single LED light
6. Link Arduino with Node-RED with three LED lights and construct traffic light

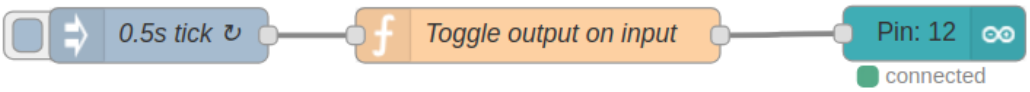
Workflow

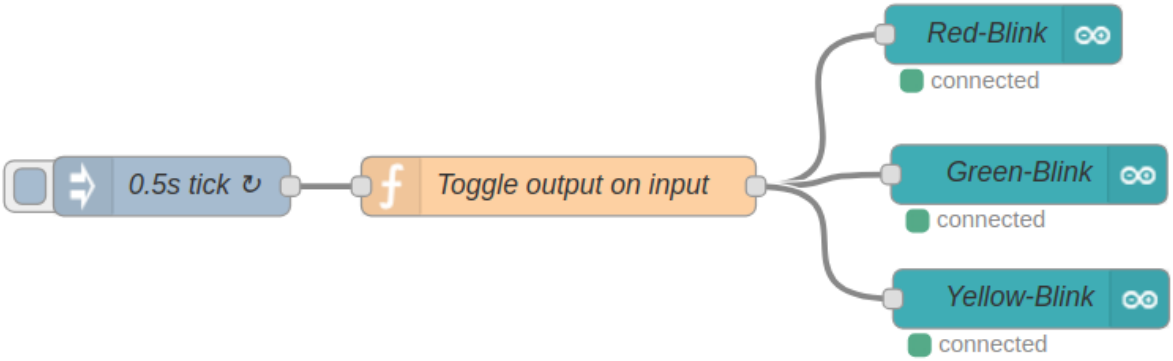
1. Write JS and HTML for new Node-RED's nodes
2. Add custom nodes to the flow with input and output nodes
3. Click on corresponding input nodes and check data on the debug panel
4. Link Arduino to Node-RED

5. Construct circuit for traffic light
6. Construct flow to perform traffic light on Node-RED with Arduino

Diagram







Parameters

None

Evaluation & Discussion

This ICP is an introduction for how to create custom node in Node-RED and how to link Arduino with Node-RED.

Conclusion

For this ICP, I got to play with more features in Node-RED and created two custom nodes for Node-RED. Also, I link Arduino with Node-RED and perform traffic light with Node-RED.

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https://github.com/MonkeyCanCode/IOT.wiki.git
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