ICP9

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MonkeyCanCode edited this page on Mar 22 · 2 revisions

Source

Video

Introduction

For ICP 9, we learned how to link Arduino with MIT APP Inventor and pull sensor data from Arduino and displays on the Android APP.

Objectives

The objective for this ICP for learning how to connect Arduino with MIT APP Inventor and pull sensor data from it.

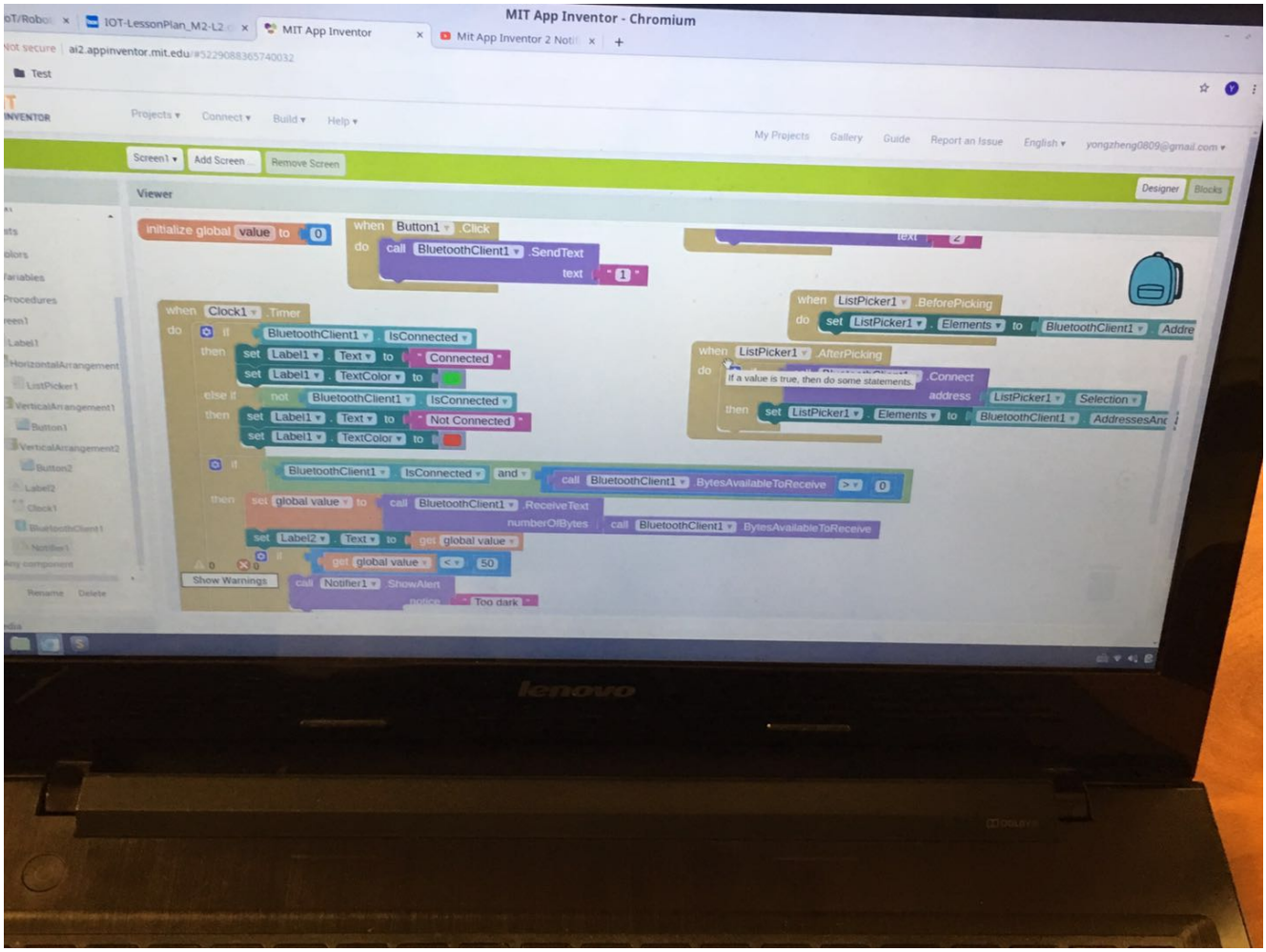
Approaches/Methods

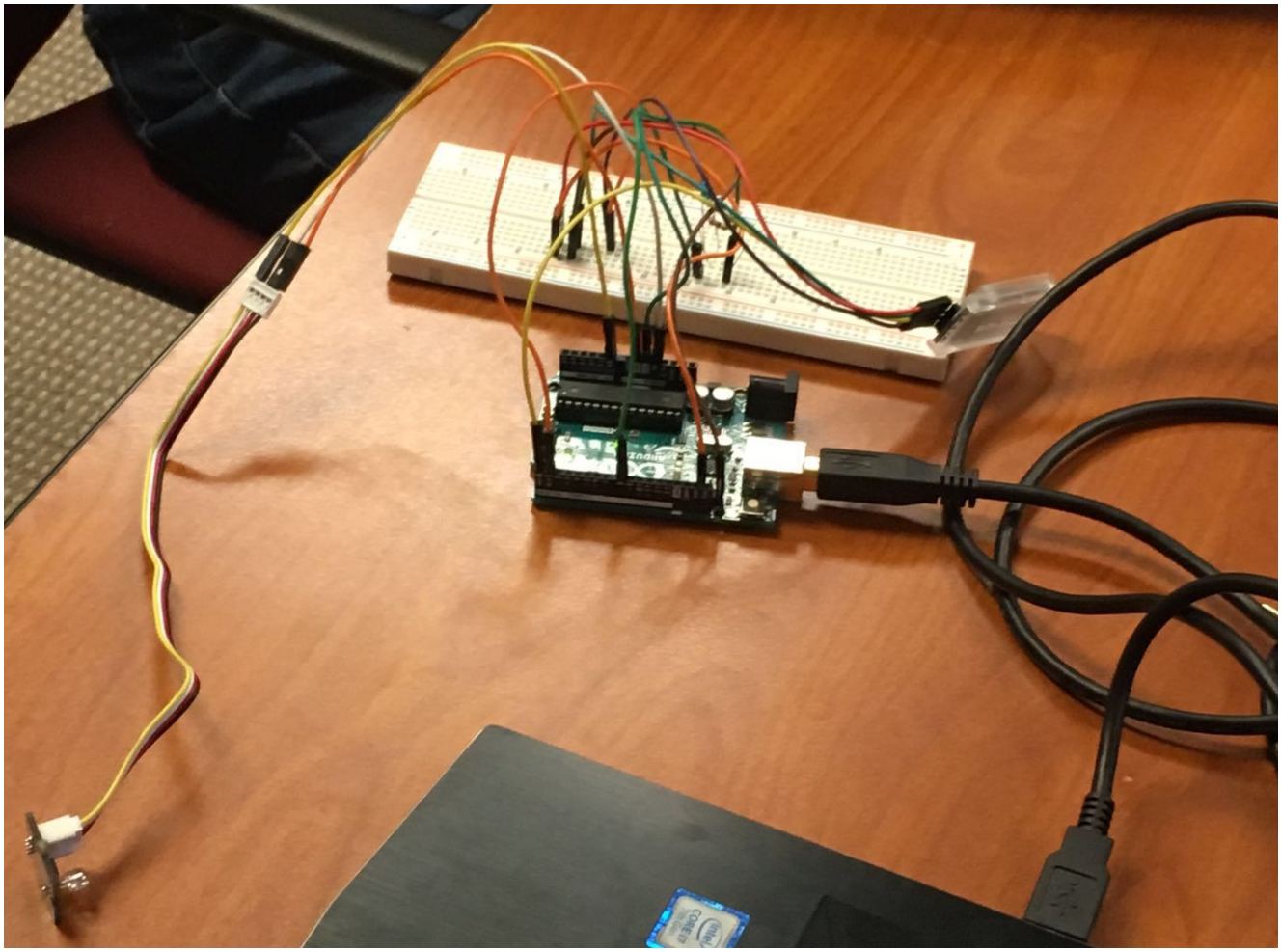
1. Construct circuit board with Adruino and breadboard.
2. Construct program logic with block code on MIT APP Inventor.
3. Push APP to Android phone and test

Workflow

1. Connect to Bluetooth on the APP with Arduino's Bluetooth module
2. Turn of/off LED light with button click on APP
3. Collect data from sensor
4. Display message on APP

Diagram


MIT App Inventor - Chromium
MIT App Inventor
Viewer
Designer
Blocks
initialize global value to 0
when Button1 .Click
do call BluetoothClient1 .SendText
text "1"
when Clock1 .Timer
when ListPicker1 .BeforePicking
when ListPicker1 .AfterPicking
BluetoothClient1 .IsConnected
Connected
Not Connected
BluetoothClient1 .BytesAvailableToReceive
.ReceiveText
numberOfBytes
get global value < 50
Too dark
Show Warnings
call Notifier1 .ShowAlert
lenovo



Parameters

None

Evaluation & Discussion

This ICP is an introduction for how to link Arduino with MIT APP Inventor via Bluetooth module and how to how to retrieve messages back from Arduino.

Conclusion

For this ICP, I got to play with more features in Arduino and links it with MIT APP Inventor via Bluetooth module. It is pretty interesting.

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