Wiki Module 2 ICP 2

Team: 1

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Objective:

The objective of this lab is to use Android app to control Arduino. Initially, the class started with introducing MIT App inventor and how it is used to control Arduino.

Task:

The students started to create an app on the MIT app inventor that will be eventually used to control Arduino. The goal of this activity was to develop an app with MIT app inventor web tool, that will consist of the three components, a list picker that will have a Bluetooth connectivity, a button that will display green when the Bluetooth is connected and a button that will display red if the Bluetooth is not connected. The settings for these components were maintained in the block section of the MIT app inventor web tool. This task was accomplished in the class and the images are pasted below.

Once this task was accomplished the next phase was to generate the QR code that should be scanned by an android device so that it can be used to display the app on the device. This task was accomplished, and app was installed on a Samsung phone. The screen shots of these task are below:

Finally, the last part of the task was to connect a humidity sensor and led lights on the board and connect this Arduino system to the app on the android device. Then communicate with the Arduino system through the app. This task was accomplished and Led lights of green and red were controlled by the app on the Arduino and the Arduino was also sending information to the app in terms of humidity data and temperature. So this bi-communicating system was established in the class and the video of this system is below.