

Assignment Statement

Outputting data to the display using an I2C interface.

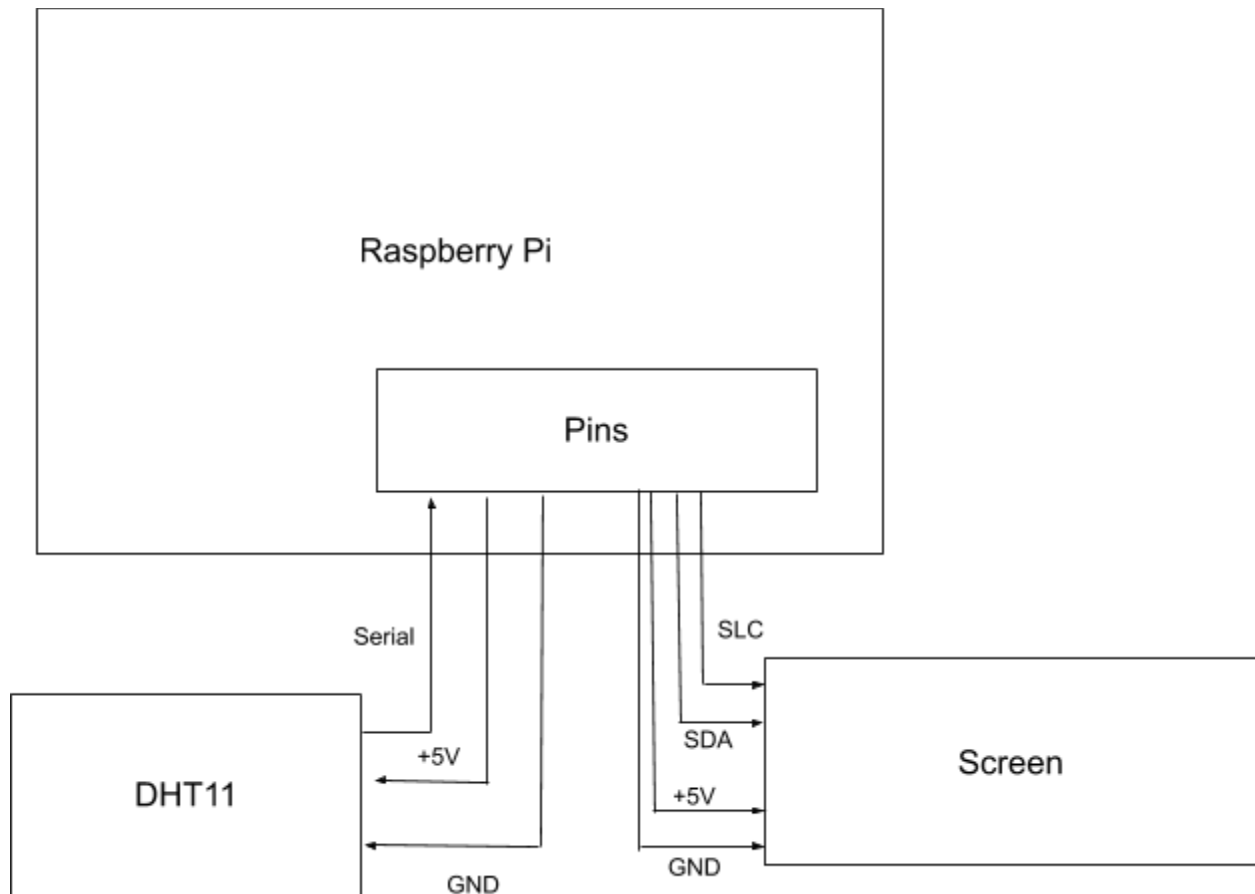
Objective

The goal of this lab was to learn about communication protocols, specifically I2C. The best way to show this is by sending data packets using I2C to the screen that we can connect to the Pi to show our data from the DHT11.

Approach

Getting the display working was relatively simple. We added the sample code into the polling code from Lab 2. All we had to do from there is read into an array, convert the important parts of the array into a string using `sprintf`, and send the string over the I2C to the display.

Circuit Diagram



Results

We were able to output the data to the screen with relative ease. The screen behaved as expected and output worked reliably.