Design & Analysis of IoT Software Systems - SOFE4610U

Assignment 3

CRN: 44432

Group Number 8

Group Member 1

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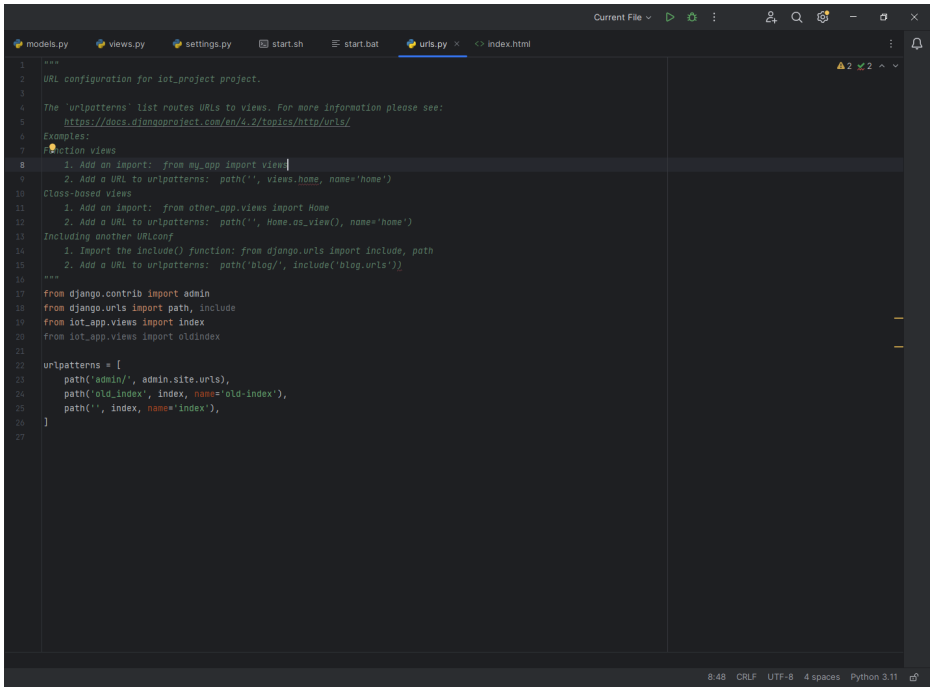
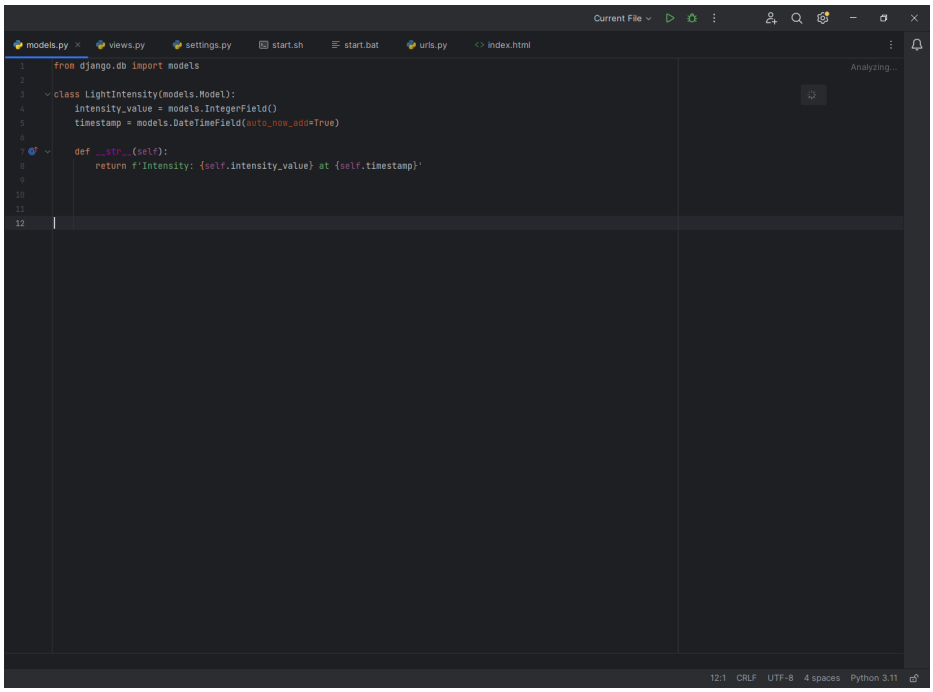
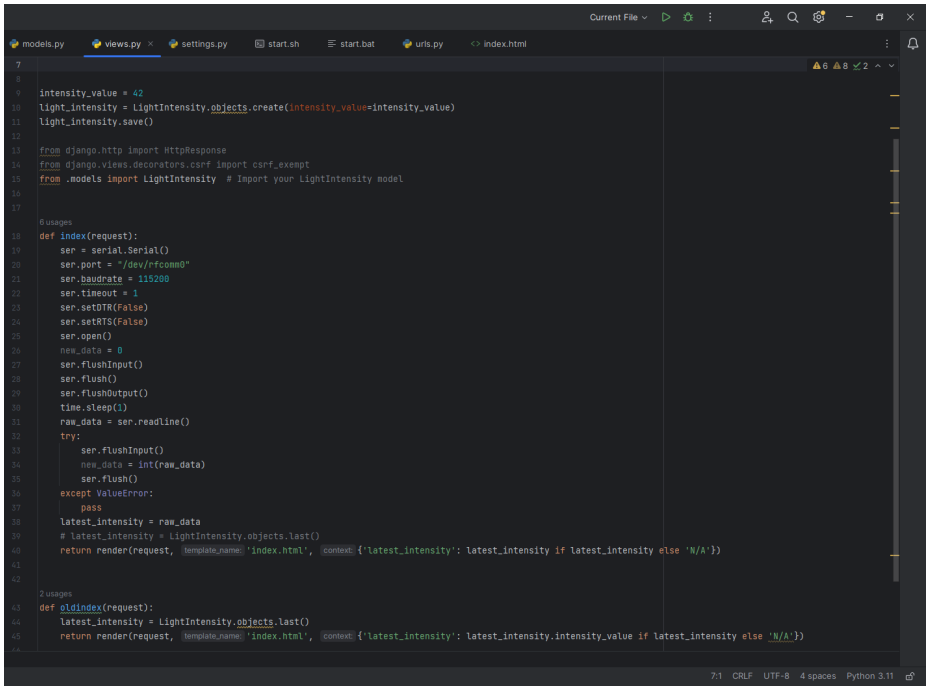
Project Repository



Defining URL routes in the Django app

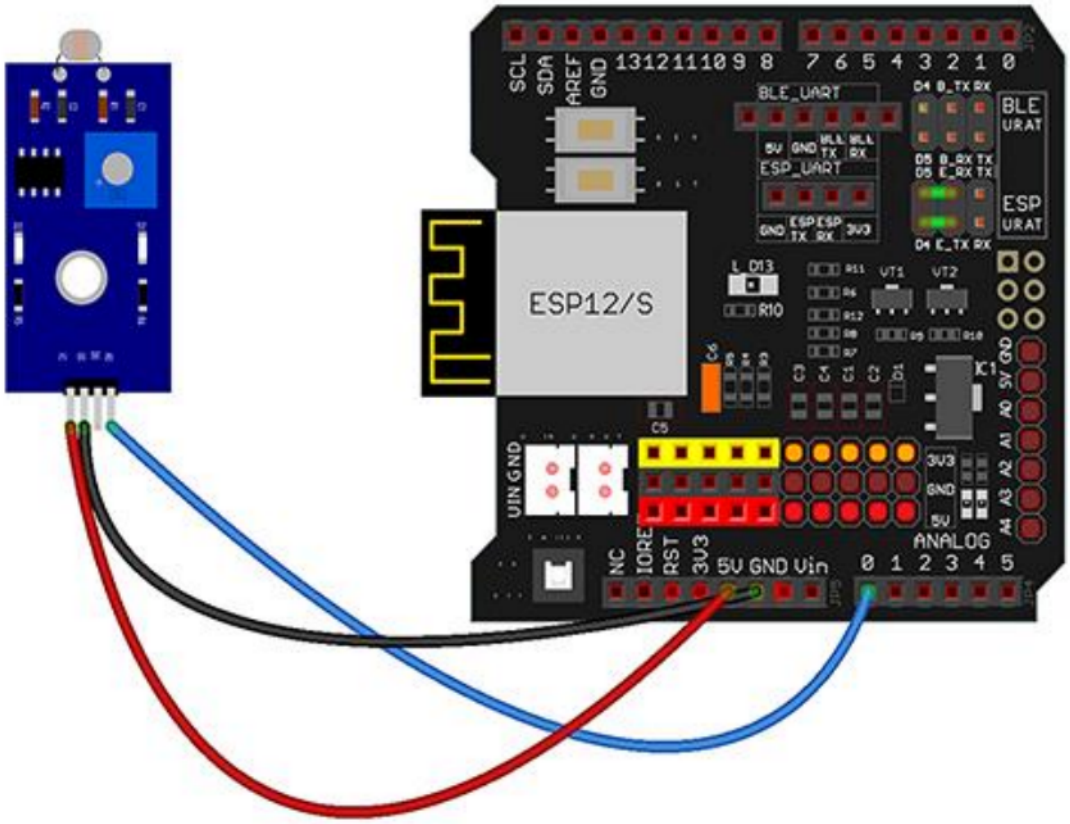


Creating a model for light intensity data

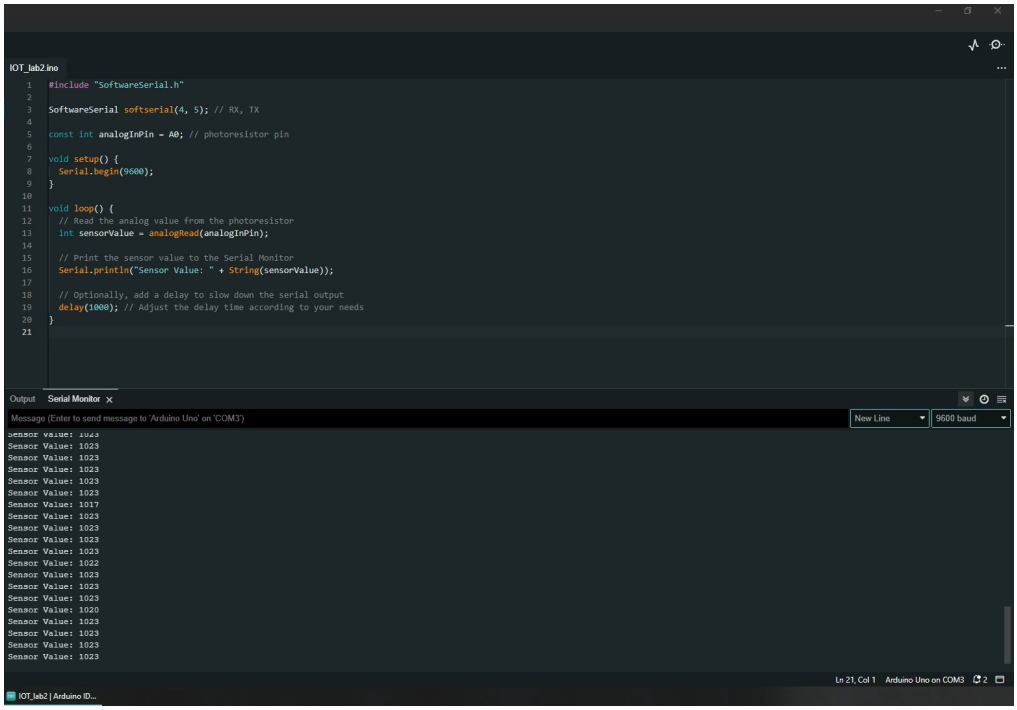


Creating a view for the index page (oldIndex displays a static value)

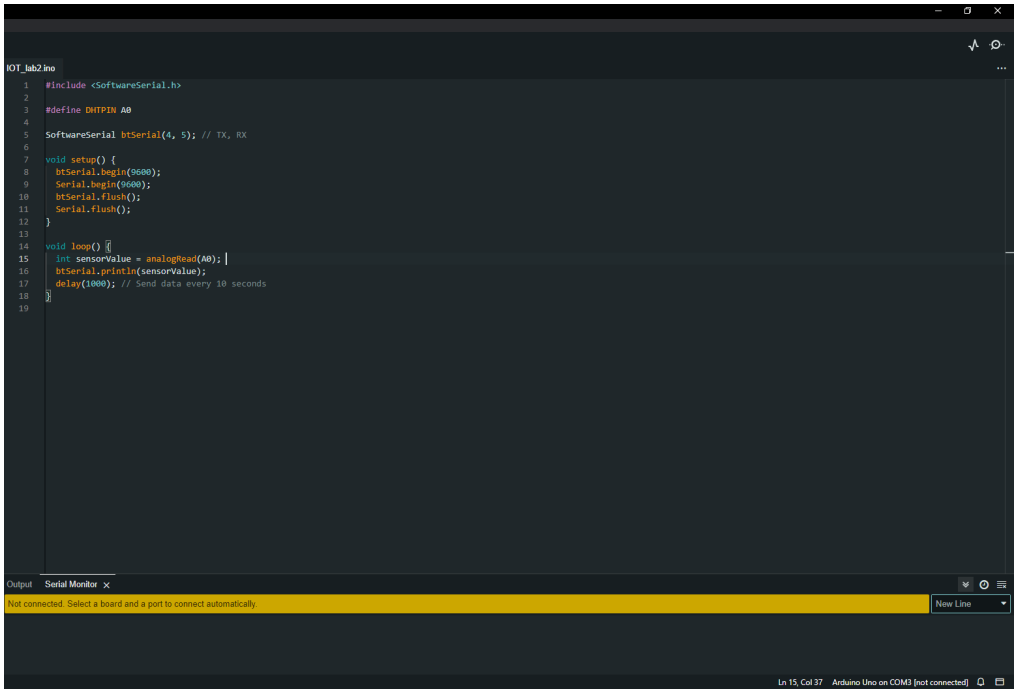
Old index displays a static value to test the HTML template



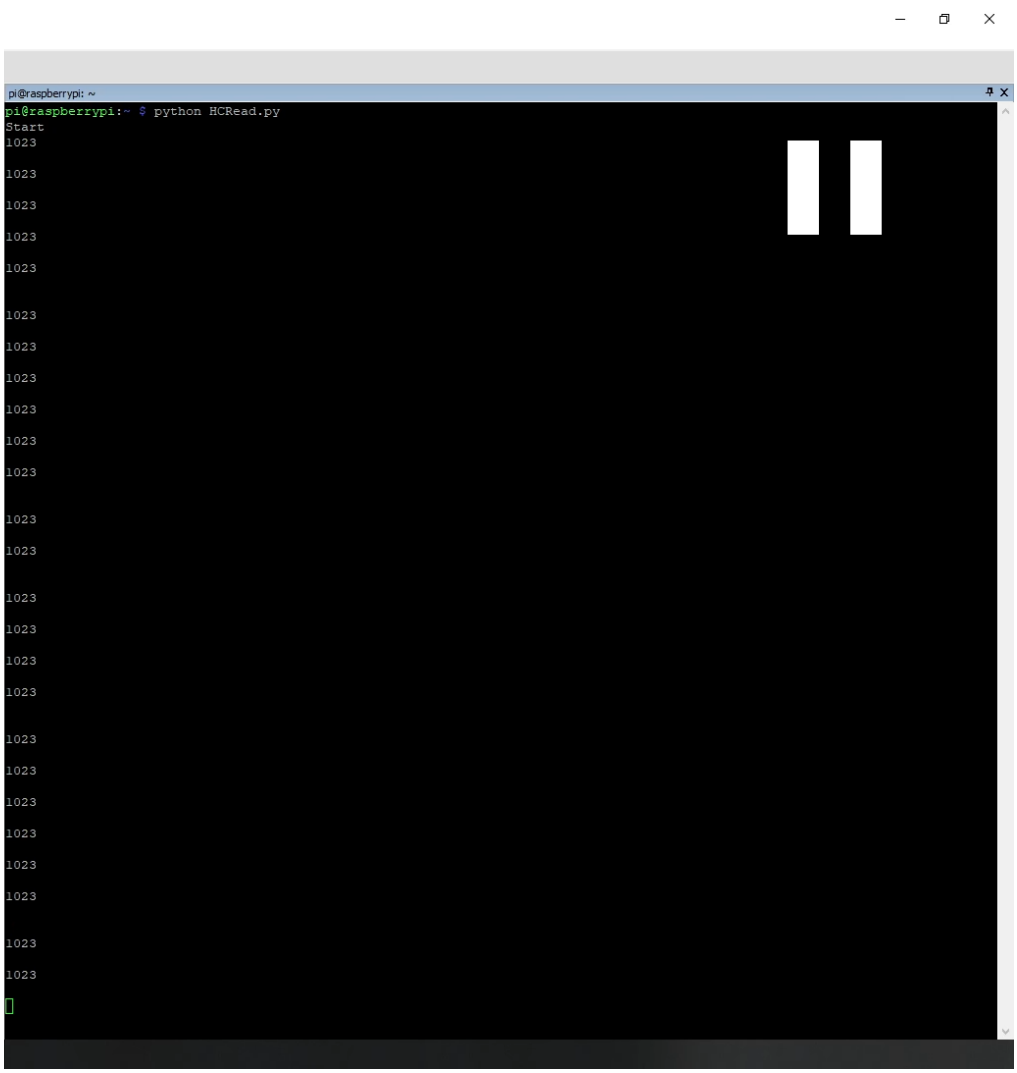
Wiring the photoresistor sensor to the Arduino WiFi shield



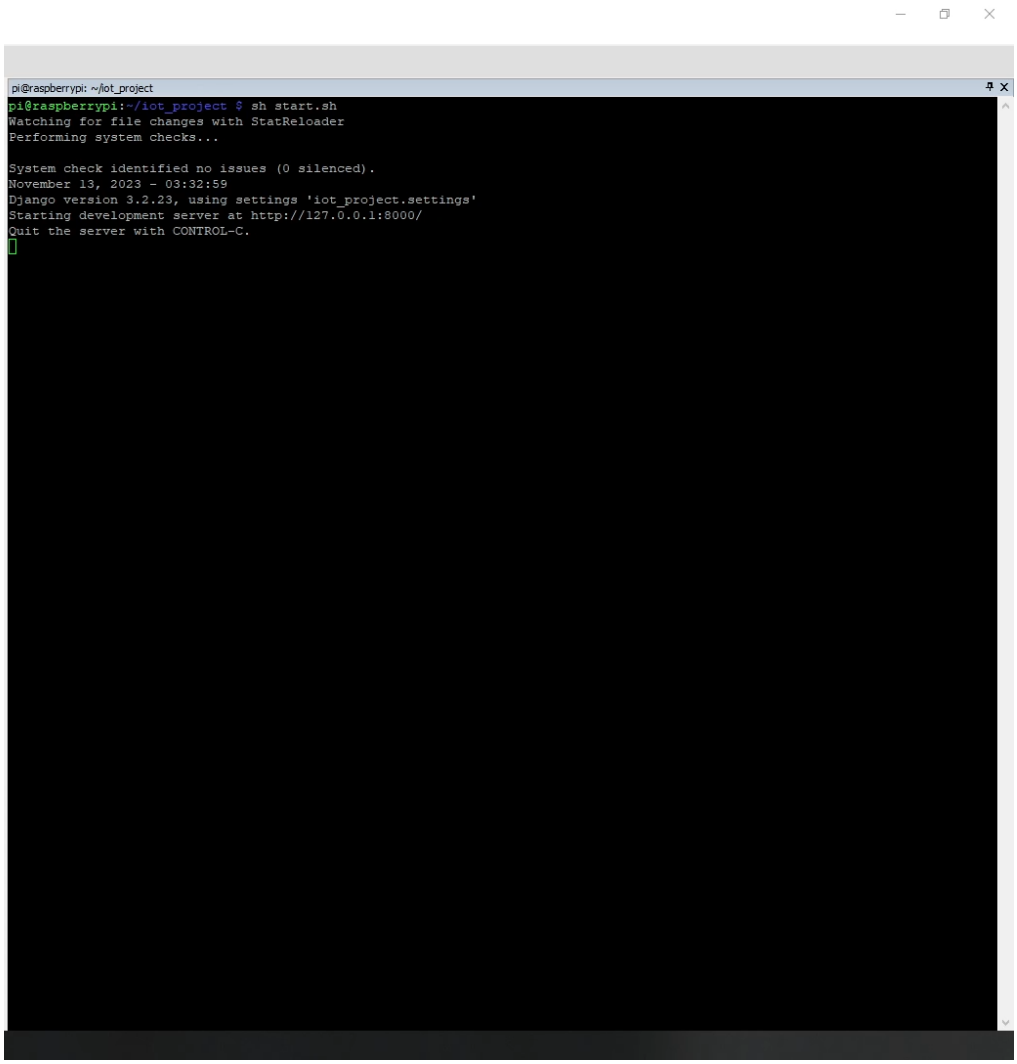
Testing reading the sensor and printing to the Serial Monitor



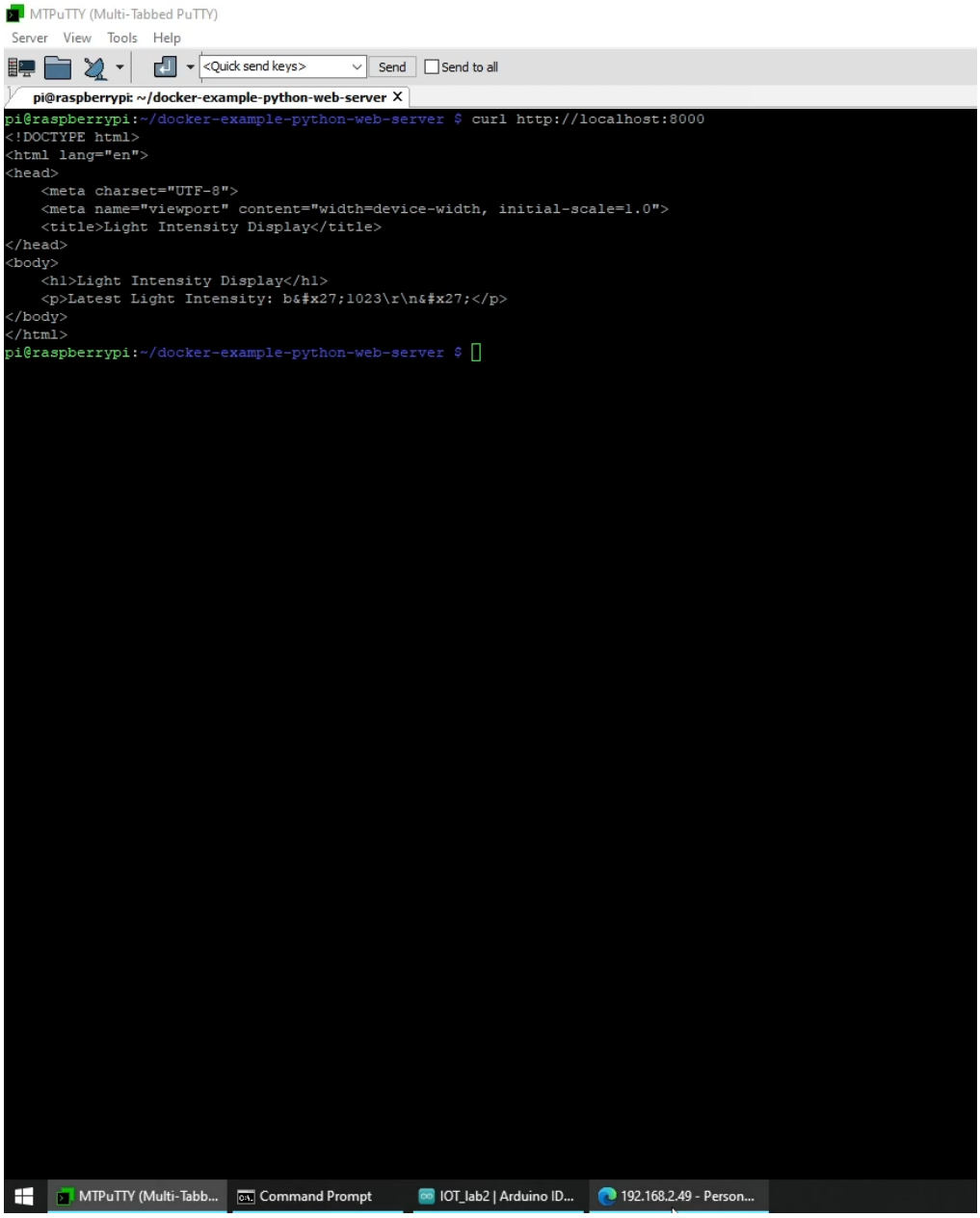
Updating the Arduino sketch to send the sensor value through bluetooth



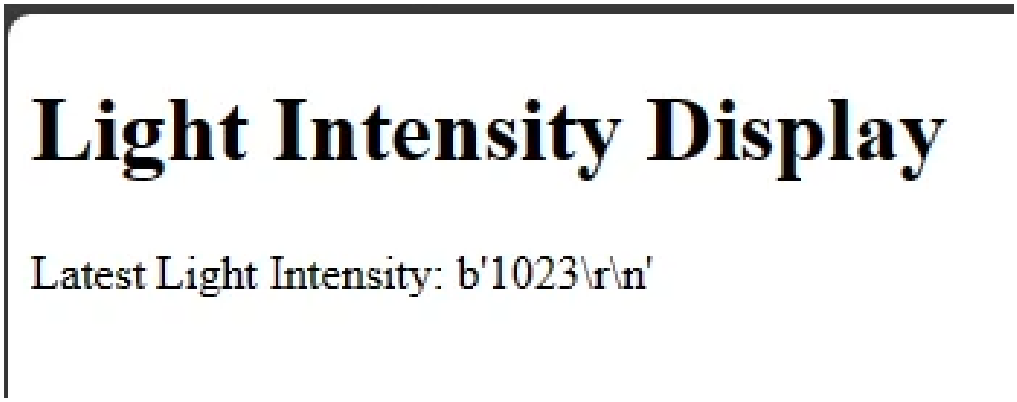
Testing capturing the photoresistor sensor values using a simple python script



Running the updated Django server on the Raspberry Pi



Testing the output of the Django web server locally on the Raspberry pi using curl after incorporating reading the bluetooth data inside the Django view



Django server displaying the correct values to another computer on the network after changing the Django settings to bind to the private IP address of the Raspberry Pi