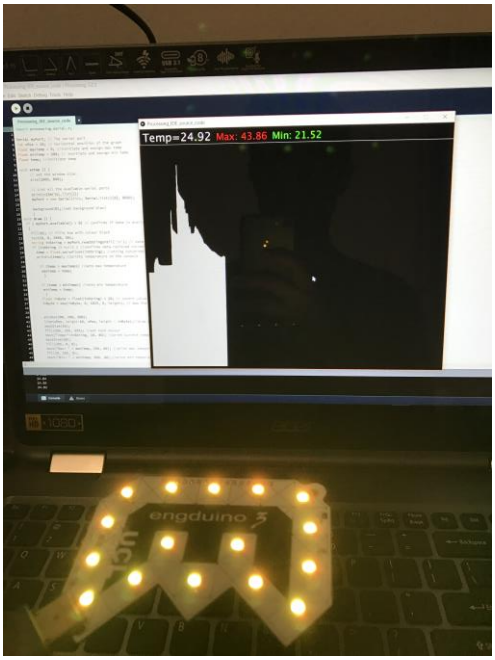
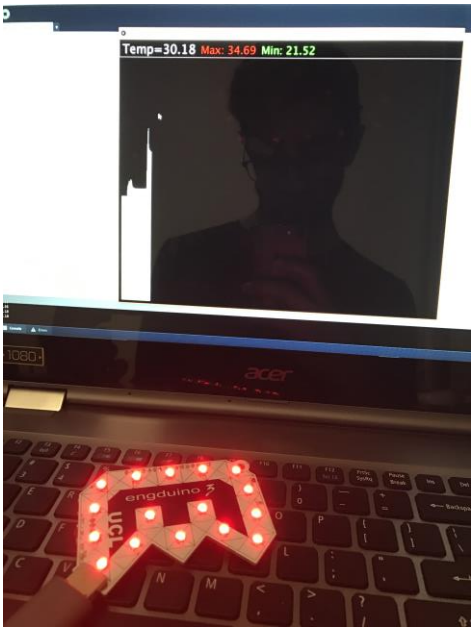
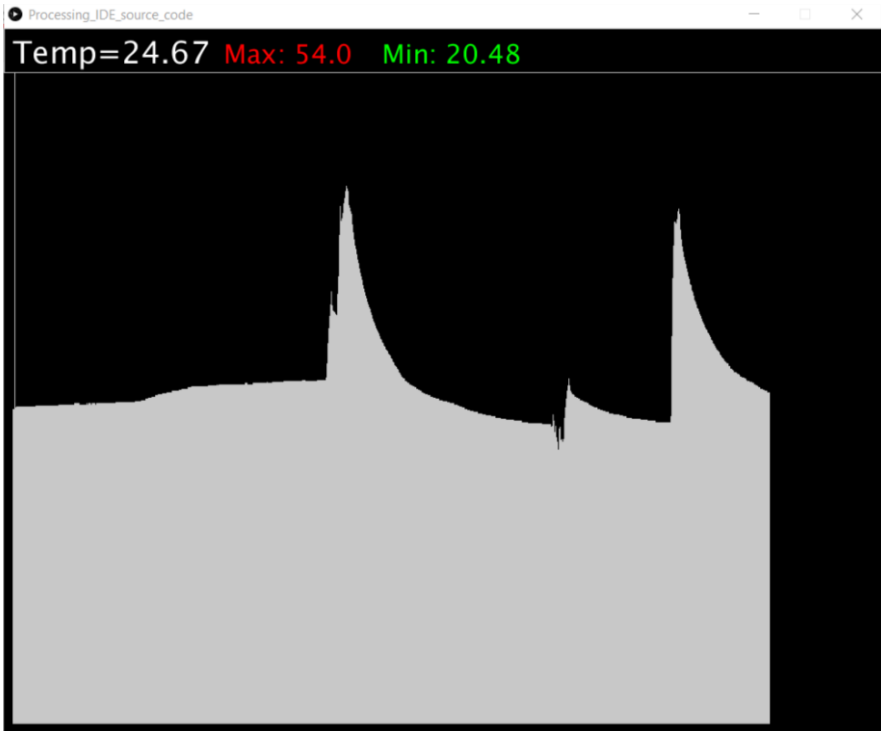
For my Engduino Project, I've programmed my Engduino to use the existing thermistor to detect temperature and make a thermostat. I designed it such that the room temperature is 24 degrees Celsius and for any temperature less than 24 degrees Celsius LED gives a colour blue and for temperatures greater than 24.99 degrees Celsius it gives the colour yellow. When the temperature is 24 degrees Celsius The LEDs light a yellow colour. I programmed it to detect the temperature every 500 ms. The colours with provided temperature is shown below.





As you can see from the pictures above, I was able to display the graph of the temperature taken every 500ms. I created strings to store the value of the maximum and minimum temperature received while the Processing code is running. The current temperature is shown at the top with the maximum and minimum temperature including the console of the processing IDE. Shown below is an example of a real time graph.



The application is easy to set up and run. First the engduino code has to be uploaded into it, and once it starts detecting the temperature, running the Processing source code while the engduino is connected gives a type if graph shown above.