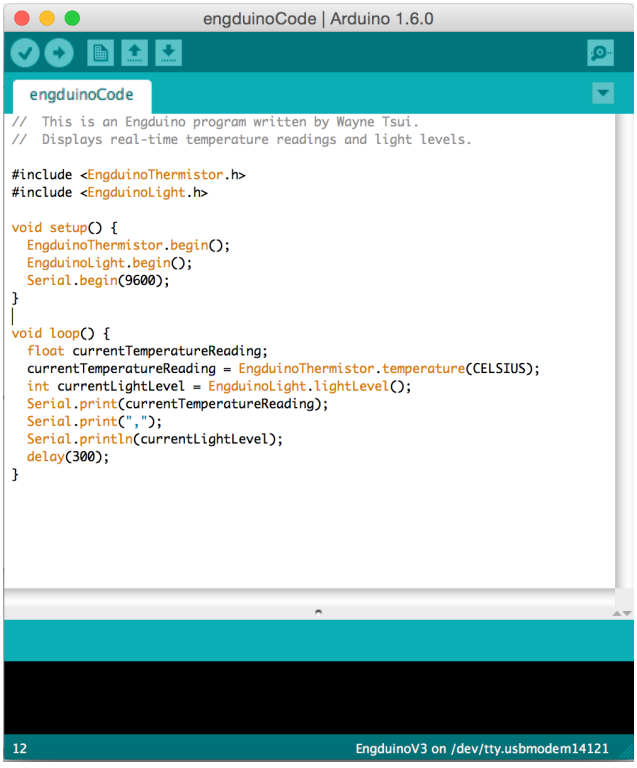
Engduino Application

This Engduino application utilises the temperature and light sensors of the Engduino to send data to the computer. Processing IDE is used to collect the data and represent it in a graphical and informative format. The current temperature readings and light levels are updated in real-time, and the highest and lowest values are recorded as the programme runs.

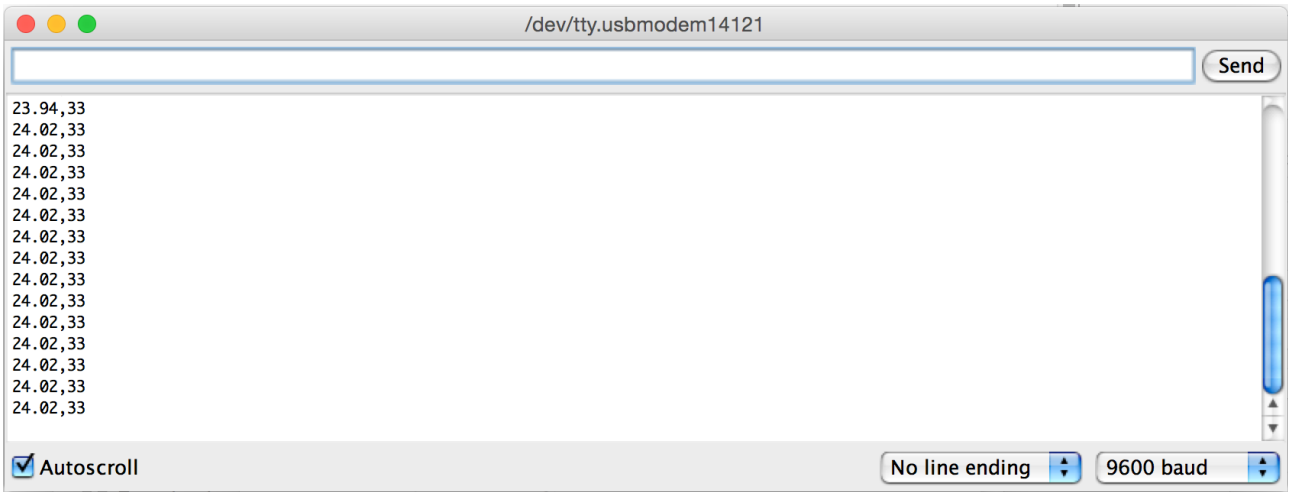
To set up and run the application:

1. Open up the “engduinoCode.ino” file.
2. Choose the correct USB port that Engduino is connected to.
3. Upload the Engduino code.
4. Check that Engduino code is functioning properly by opening the serial monitor, string values should appear.
5. Open up the “displayCode.pde”.
6. Run the Processing sketch.
7. Select the correct serial port by looking at the Processing console and update the correct serial list value in “setup”.
8. Run the sketch again.
9. A display window will appear to show the graphical data of temperature readings and light level.

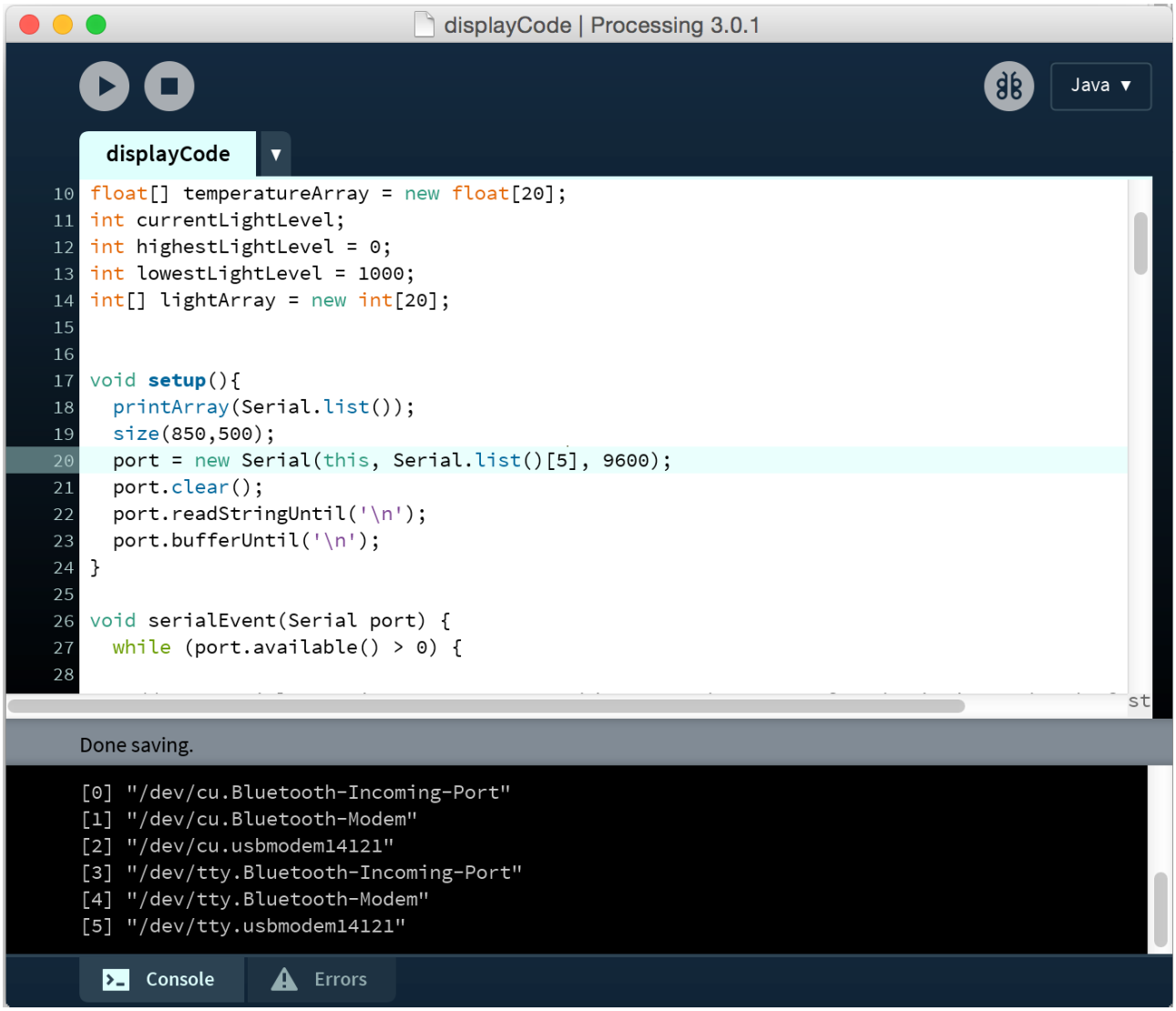
Screenshots:



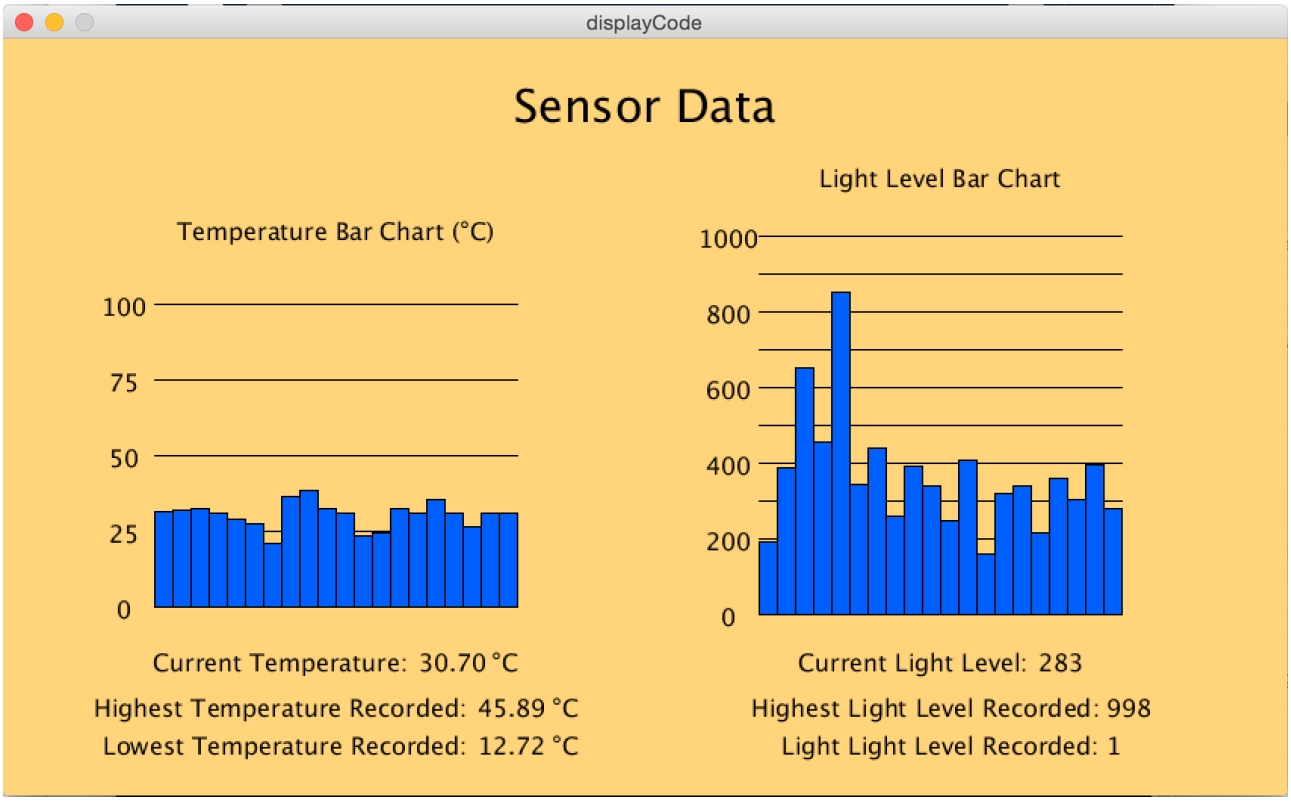
Screenshot 1. Engduino source code.



Screenshot 2. Engduino Serial Monitor.



Screenshot 3. Processing IDE source code.



Screenshot 4. Processing IDE Processing Window.