

EE344

Electronic Design Lab

Lab Report

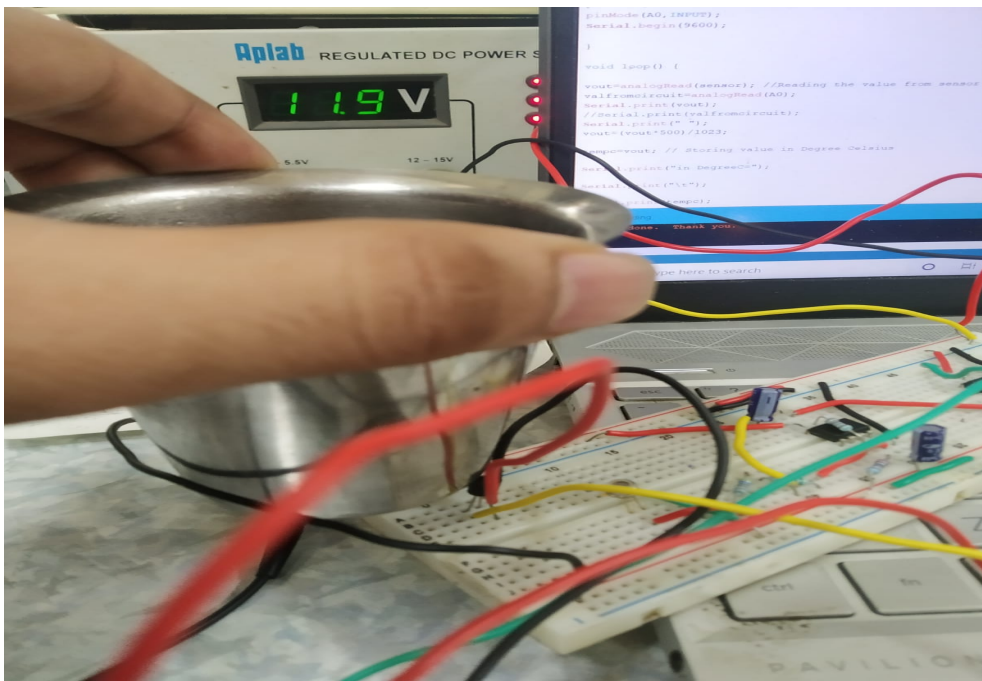
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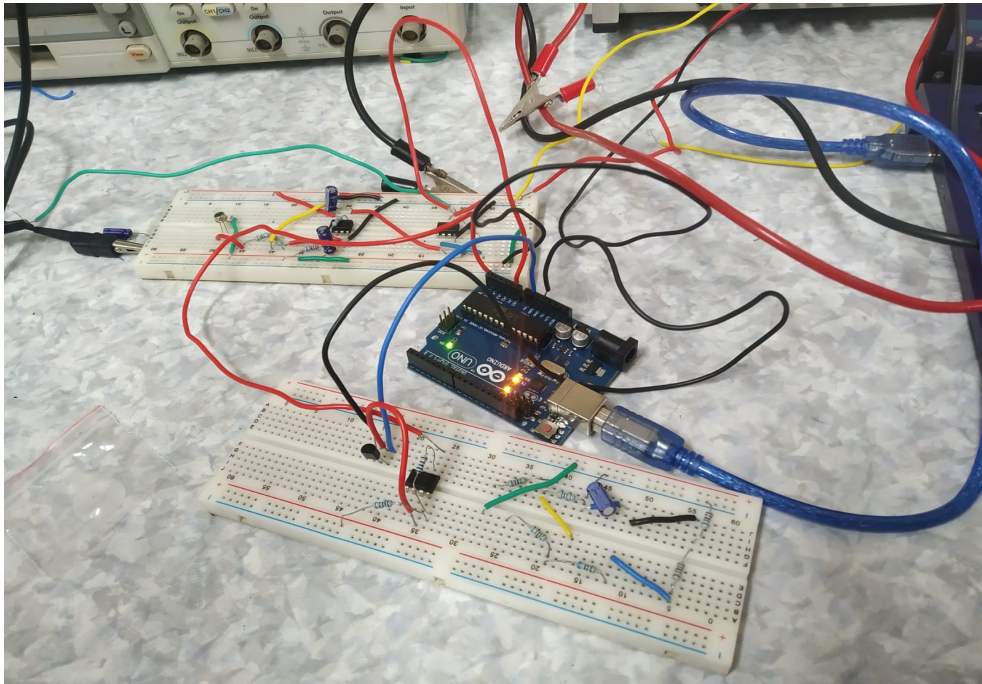
Sensor Output Calibration using LM35 :

Today, we tried to calibrate our IR Sensor outputs with temperatures using the Arduino UNO Board with the help of standard LM35 data. As seen the images given below, we used an Electric Kettle to heat the water for taking readings at higher temperatures than the room temperature. We filled the hot water into a steel glass and brought it closer to the sensor to take readings.



Arduino Interfacing of Sensor Outputs :

Then we tried to calibrate the sensor output with the standard LM35 readings. The outputs was fairly matches but some errors were occurring. We will try to fix these errors and finalize the circuit for PCB fabrication in the next lab.



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