

Homework #4: Sensing

Due Monday

1. Make a circuit to measure temperature using a voltage divider
2. Make a 10x inverting amplifier and use it to amplify the voltage from the voltage divider
3. Write a program in Processing that reads #1, the unamplified voltage, and #2, the amplified voltage, and expresses these values as Temperatures.
4. What is the resolution of #1 and #2?
5. In your program, plot the data of #1 and #2.
6. Log the data of #1 and #2 to a file, one point every 10 seconds- include the time at which each point was acquired.