Project 2 Serial Transmit of Temperature

Calibrate a temperature sensor connected to an Arduino. See “A Quick Guide to Temperature Sensors and Calibration.pdf” for some techniques.

Using a Round Robbin with Interrupts design, get the Arduino to capture the temperature and convert to Fahrenheit

After the temperature has stabilized, start recording the Arduino temperature at a periodic rate of around 10s at room temperature, continue to record periodic temperatures after placing the Arduino in the refrigerator for 5 minutes, and continue to record periodic temperatures after removing from refrigerator and staying in the room for 5 minutes.

Transmit the time and temp across a Serial bus like USB to your Host, others could be SPY or I2C if your Host had one of those busses.

Export as a comma separated value file, read into a spreadsheet program and plot the temperature vs time.

Submit per directions in “Project Submission.docx”