Francesca Diamente

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#!/usr/bin/python
import os
import time
import sqlite3 as mydb
import sys

""" Log Current Time, Temperature in Celsius and Fahrenheit
   To an Sqlite3 database """

def readTemp():
        tempfile = open("/sys/bus/w1/devices/28-041692b69eff/w1_slave")
        tempfile_text = tempfile.read()
        currentTime=time.strftime('%x %X %Z')
        tempfile.close()
        tempC=float(tempfile_text.split("\n")[1].split("t=")[1])/1000
        tempF=tempC*9.0/5.0+32.0
        return [currentTime, tempC, tempF]

def logTemp():
        con = mydb.connect('/home/pi/Tests/temperature.db')
      with con:
      # looped through 20 times because we wanted 10 minutes worth of readings every 30
      #seconds, so that's 20 total reads
       for i in range(0,20):
          try:
                [t,C,F]=readTemp()
                print "Current temperature is: %s F" %F
                cur = con.cursor()
                #sql = "insert into TempData values(?,?,?)"
                cur.execute('insert into TempData values(?,?,?)', (t,C,F))
                print "Temperature logged"
          except:
                print "Error!!"
          #sleeps for 30 seconds to make sure it waits before reading again
          time.sleep(30)

logTemp()
```

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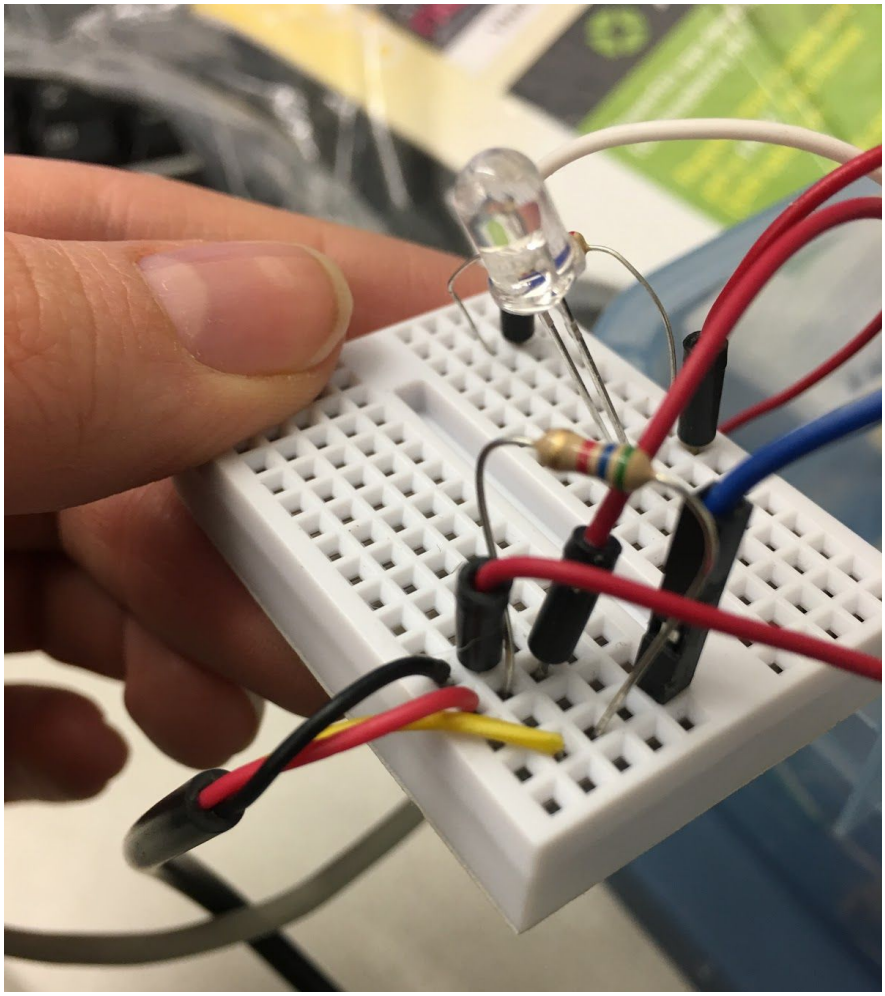

date_time	tempC	tempF
03/07/17 18:	25.187	77.3366
03/07/17 18:	31.687	89.0366
03/07/17 18:	33.25	91.85
03/07/17 18:	34	93.2
03/07/17 18:	34.375	93.875
03/07/17 18:	34.687	94.4366
03/07/17 18:	34.75	94.55
03/07/17 18:	34.937	94.8866
03/07/17 18:	35.125	95.225
03/07/17 18:	35.25	95.45
03/07/17 18:	35.312	95.5616
03/07/17 18:	33.562	92.4116
03/07/17 18:	31.625	88.925
03/07/17 18:	30.062	86.1116
03/07/17 18:	28.75	83.75
03/07/17 18:	27.75	81.95
03/07/17 18:	26.75	80.15
03/07/17 18:	26	78.8
03/07/17 18:	25.25	77.45
03/07/17 18:	24.687	76.4366