myTempProfile

Code:

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

"""Log Current Time, Temperature in Celsius and Fahrenheit
  Returns a list [time, tempC, tempF]"""

def readTemp():
        tempfile = open("/sys/bus/w1/devices/28-031689e386ff/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/ELSpring2017/code/temperature.db')
        with con:
                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!!"

schedule.every(30).seconds.do(logTemp)

t_end = time.time() + 60 * 10
while time.time() < t_end + 1:
    schedule.run_pending()
    time.sleep(1)
```
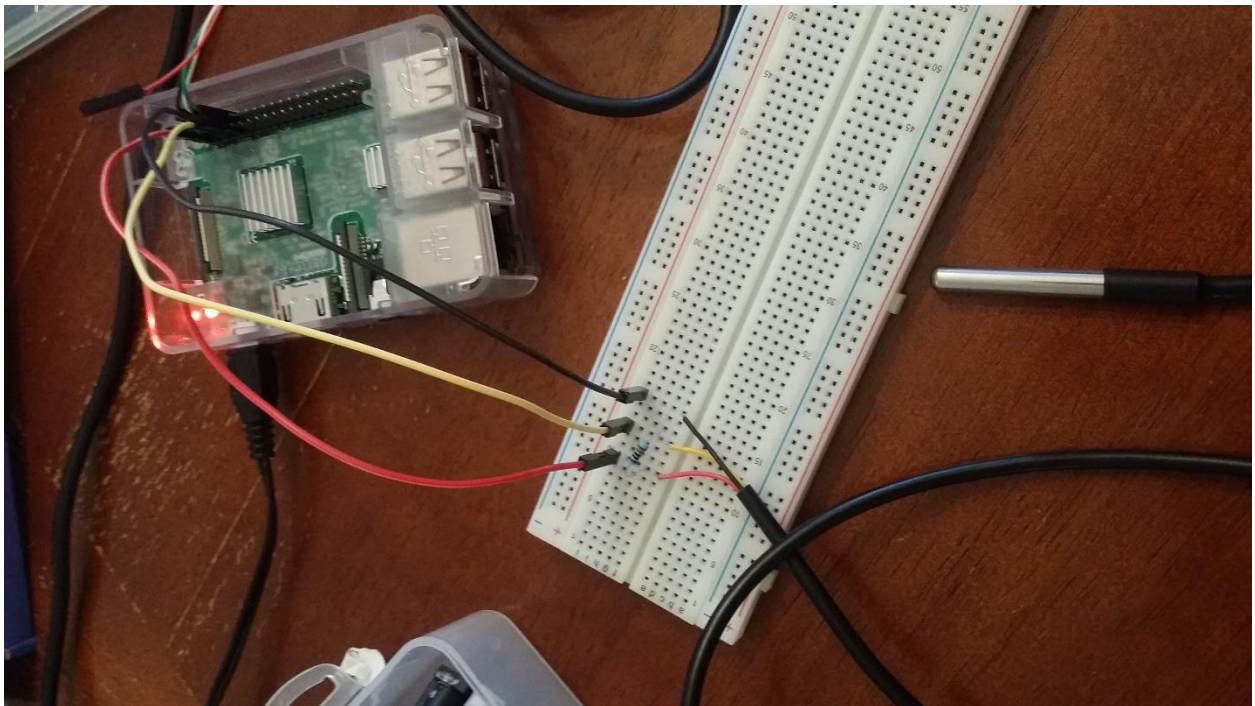
Setup Picture

Chart

Chart showing TempC and TempF over time from 03/08/17 16:00:04 EST to 03/08/17 16:49:33 EST. Y-axis ranges from 0 to 100. TempC (blue line) ranges approximately 22 to 32. TempF (orange line) ranges approximately 72 to 90.