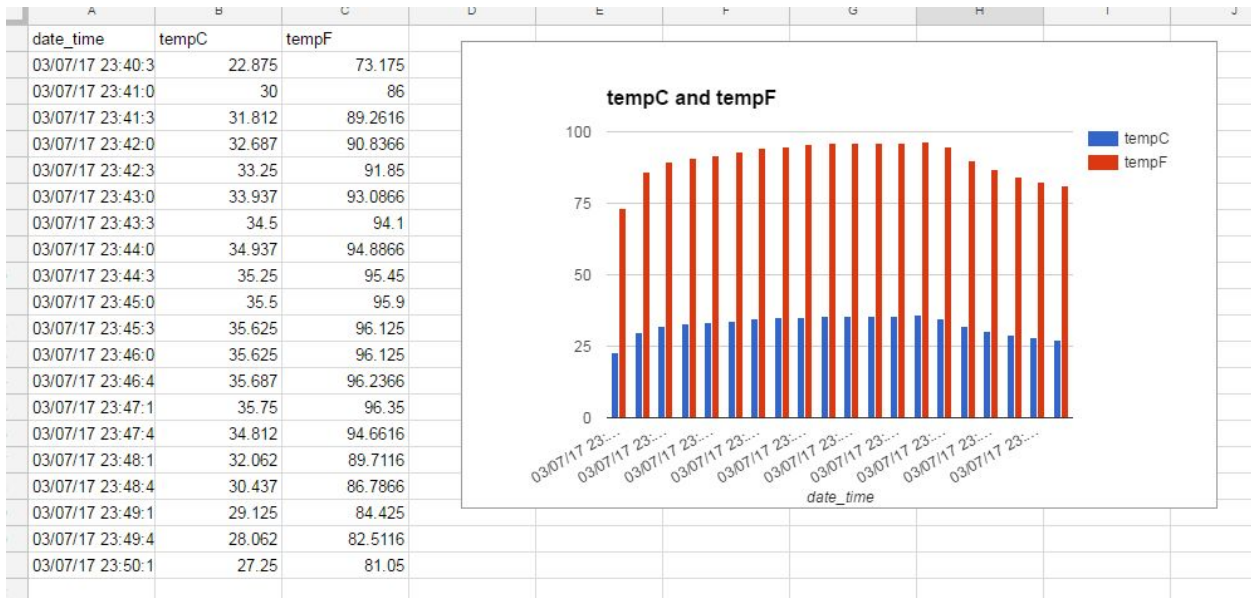
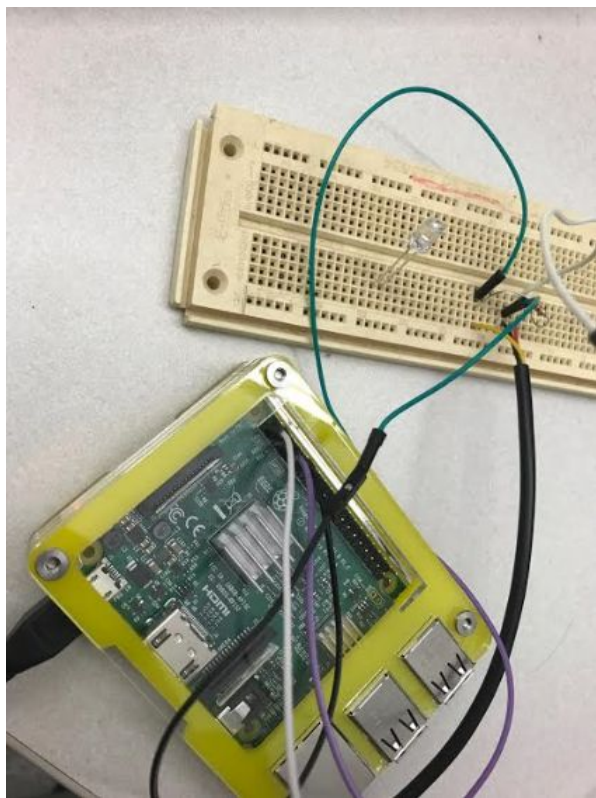


Mikaela Stiklickas
Assignment 3 part 3



```
#!/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/28-0516921f23ff/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]

# In this section of the code, I placed a for loop so that the commands given
# will allow the loop to recycle itself 20 times every 30 seconds. This makes
# the loop execute for 10 total minutes while collecting the temperature
# data every 30 seconds.

def logTemp():
    con = mydb.connect('/home/pi/Tests/temperature.db')
    with con:
        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!!"
            time.sleep(30)

logTemp()
```