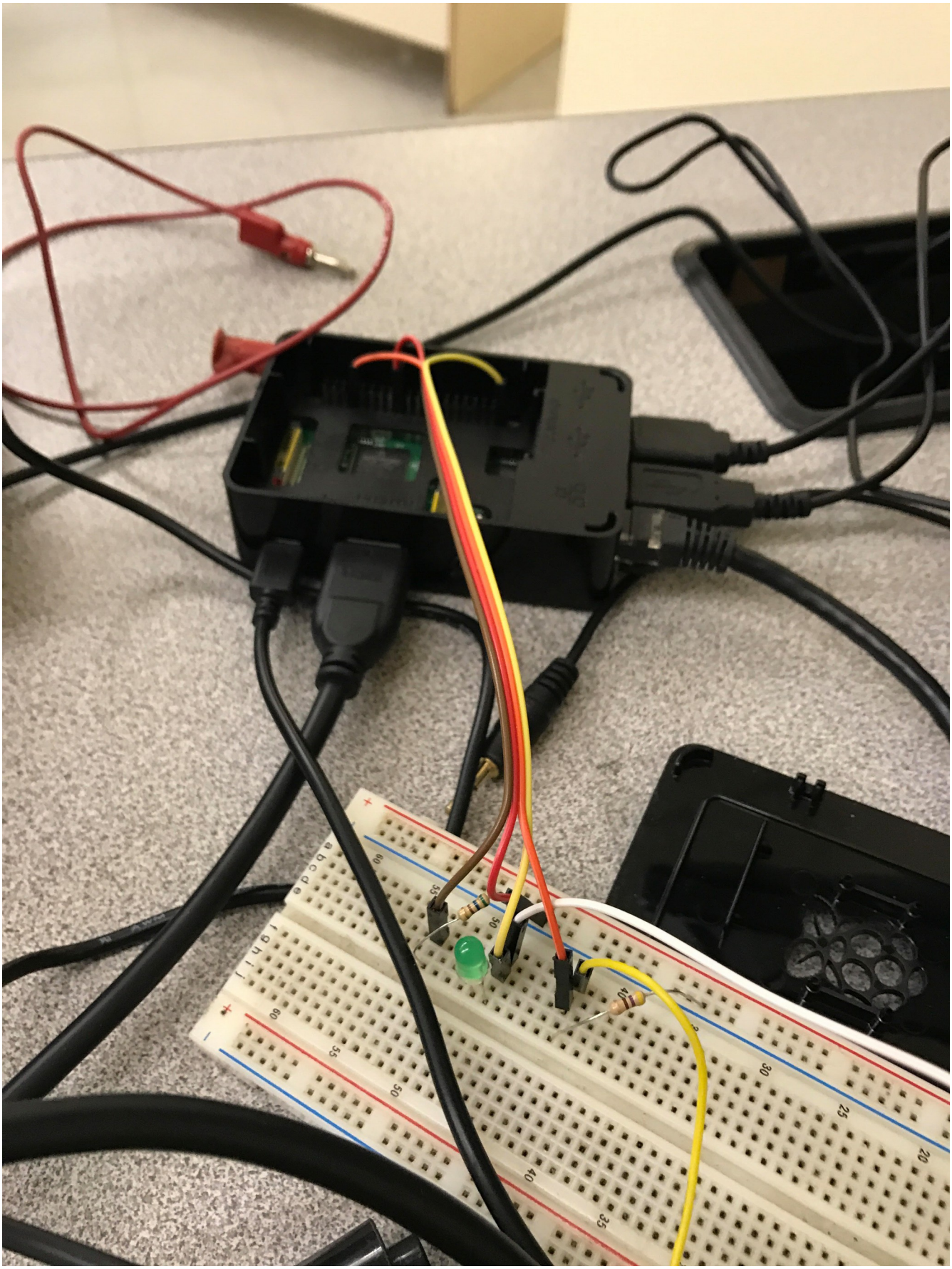

```
#!/usr/bin/python
import os
import time
import sqlite3 as mydb
import sys
""" Log Current Time, Temperature in Celsius and Fahrenheit
 To an Sqlite3 database """
def readTemp():
        tempfile = open("/sys/bus/w1/devices/28-051692206bff/w1_slave")
        tempfile_text = tempfile.read()
        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
        print [currentTime, tempC, tempF]
        return [currentTime, tempC, tempF]
def logTemp():
        con = mydb.connect('temperature.db')
        with con:
                try:
                        [t,C,F]=readTemp()
                        print "Current temperature is: %s F" %F
                        cur = con.cursor()
                        cur.execute('CREATE TABLE IF NOT EXISTS TempData(Time
TEXT, Cel REAL, Far REAL)')
                        #sql = "insert into TempData values(?,?,?)"
                        print "Still works"
                        cur.execute('insert into TempData values(?,?,?)', (t,C,F))
                        print "Temperature logged"
                except:
                        print "Error!!"


con = mydb.connect('temperature.db')
with con:
        cur = con.cursor()
        cur.execute("DROP TABLE IF EXISTS TempData")

#loop for 10 min
for x in range(20):
        logTemp() #log temp
        time.sleep(30) #wait 30 seconds

#create csv file
f = open("data.csv","w")

con = mydb.connect('temperature.db')
with con:
```

```
        cur = con.cursor()
        cur.execute('SELECT * FROM TempData')
        rows = cur.fetchall()
        for row in rows:
                f.write(','.join([str(x) for x in row]))
                f.write('\n')
        #[f.write(','.join(row)) for row in rows]
f.close()
```