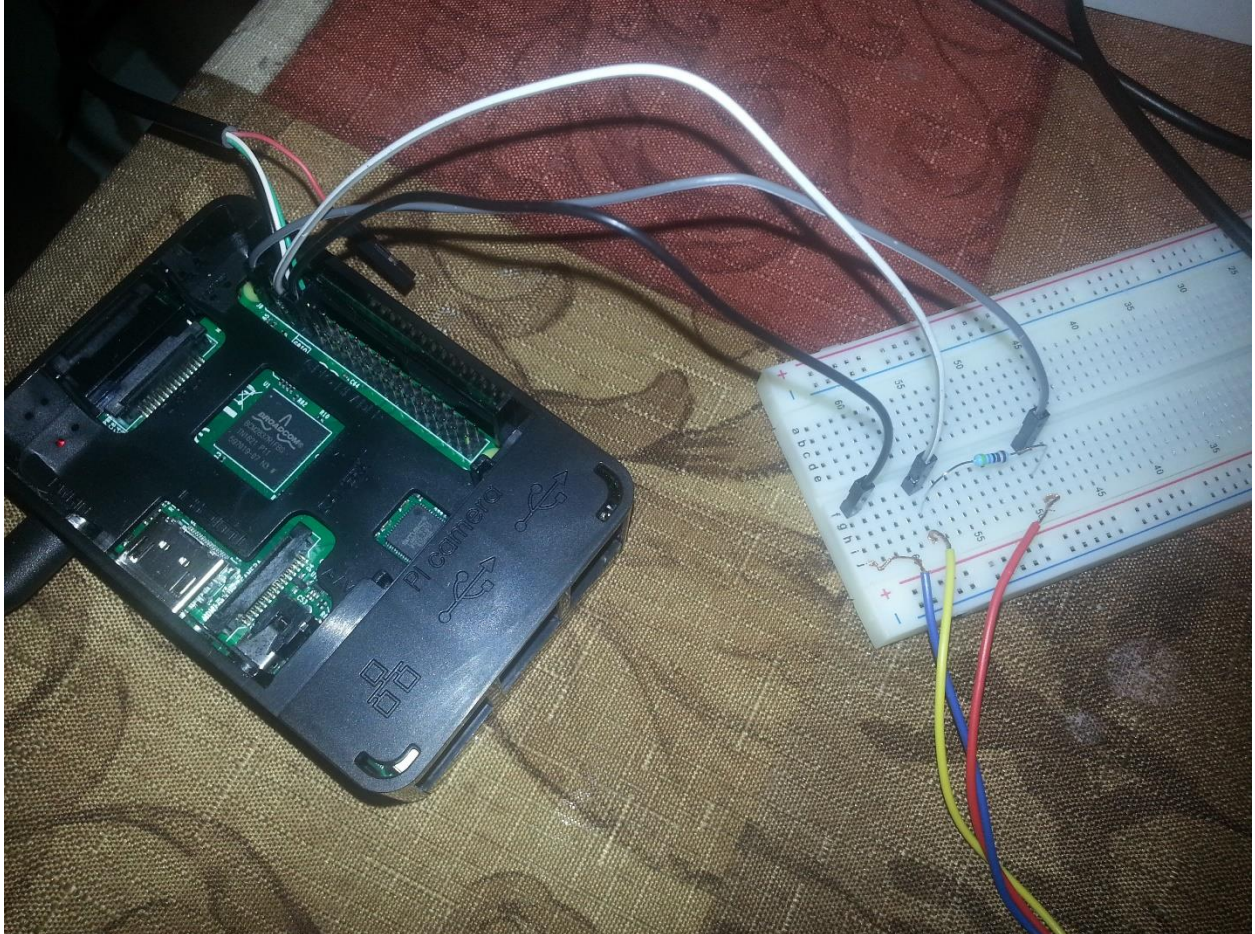


Logging of Temperature into a SQLite Database

Wiring of Temperature sensor



Python Code

```
import os
import time
import sqlite3 as mydb
import sys

# Program to read temperature from a sensor for 10 minutes
# at 30 seconds intervals. Data is sent to a sqlite database.

# Reads temperature and time.
# Returns the current time, temperature in Fahrenheit, and temperature
in Celsius
def readTemp():
    tempfile = open("/sys/bus/w1/devices/28-000006964288/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]

# Calls readTemp() and logs temperature with time stamp into sqlite
#db.
def logTemp():
    con = mydb.connect('temperature.db')
    with con:
        try:
            [t,C,F] = readTemp()
            print "Current temperature is: %s F" %F
            cur = con.cursor()
            sql = "insert into temperatureTable values(?,?,?)"
            cur.execute('insert into temperatureTable
values(?,?,?)',(t,C,F))
            print "Temperature logged"
        except:
            print "Error!!"

#executes the logTemp() function every 30 seconds for 10 minutes
def logActivity():
    x = 0;
    while(x<20):
        logTemp()
        time.sleep(30)
        x = x + 1

logActivity()
```

