

Logging Data:

Create an sqlite3 database **temperature.db**, with a table **TempData**:

```
CREATE TABLE TempData(date_time text, tempC double, tempF double);
```

```
#!/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/28-00044a3807ff/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/myPi/Tests/TempSensor/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!!"

#print readTemp()
logTemp()
```

Yours will be different

For automatic logging of temperature every 10 minutes, create a crontab entry:

```
0,10,20,30,40,50 * * * * python /home/pi/myPi/Tests/TempSensor/logTemperature.py >/dev/null 2>&1
```