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pi@raspberrypi ~$ nano logTemperature.py
GNU nano 2.2.6 File: logTemperature.py Modified

# 10 minutes at 30 seconds temprature get read and then
data is sent to a sqlite database.
import os
import time
import sqlite3 as mydb
import sys

def readTemp():
    tempfile = open("/sys/bus/w1/devices/28-000006961c7b/w1_slave")
    tempfile_text = tempfile.read()
    currentTime = time.strftime('%X %Z') # Reads time.
    tempfile.close()
    tempC = float(tempfile_text.split("\n")[1].split("t=")[1])/1000 #temp in calcs
    tempF = tempC*9.0/5.0+32.0
    return [currentTime, tempC, tempF]

# Calls the readTemp() and logs temperature. this will give the time to the temprature in 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!!"

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

logActivity()
```

