



```

import os
import time
import sqlite3 as mydb
import sys

def readTemp():
    tempfile = open("/sys/bus/w1/devices/28-03168b11bbff/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():
    for i in range(0,20):
        con = mydb.connect('templog.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!!"
                time.sleep(30)

#print readTemp()
logTemp()

```