Waleed Binselim Embedded Linux Assignment 3

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#!/usr/bin/python
import os
import time
import sqlite3 as mydb
import sys
""" Log Current Time, Temperature in Celsius and Fahrenheit
Returns a list [time, tempC, tempF] """
sumOfSeconds = 0
def readTemp():
       tempfile = open("/sys/bus/w1/devices/28-051686f4d2ff/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('temperature.db')
       [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))
       con.commit()
       print "Temperature logged"
    global sumOfSeconds
   time.sleep(30)
    sumOfSeconds = sumOfSeconds + 30
    if sumOfSeconds != 600:
       logTemp()
logTemp()
```



