https://learn.adafruit.com/adafruits-raspberry-pi-lesson-11-ds18b20-temperature-sensing/software

import glob

import time

base\_dir = '/sys/bus/w1/devices/'

device\_folder = glob.glob(base\_dir + '28\*')[0]

device\_file = device\_folder + '/w1\_slave'

def read\_temp\_raw():

f = open(device\_file, 'r')

lines = f.readlines()

f.close()

return lines

def read\_temp():

lines = read\_temp\_raw()

while lines[0].strip()[-3:] != 'YES':

time.sleep(0.2)

lines = read\_temp\_raw()

equals\_pos = lines[1].find('t=')

if equals\_pos != -1:

temp\_string = lines[1][equals\_pos+2:]

temp\_c = float(temp\_string) / 1000.0

temp\_f = temp\_c \* 9.0 / 5.0 + 32.0

return temp\_c, temp\_f

while True:

C, F = read\_temp()

print F