import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

TRIG = 23

ECHO = 24

print "Distance Measurement In Progress"

GPIO.setup(TRIG,GPIO.OUT)

GPIO.setup(ECHO,GPIO.IN)

GPIO.output(TRIG, False)

print "Waiting For Sensor To Settle"

time.sleep(2)

GPIO.output(TRIG, True)

time.sleep(0.00001)

GPIO.output(TRIG, False)

while GPIO.input(ECHO)==0:

pulse\_start = time.time()

while GPIO.input(ECHO)==1:

pulse\_end = time.time()

pulse\_duration = pulse\_end - pulse\_start

distance = pulse\_duration \* 17150

distance = round(distance, 2)

print "Distance:",distance,"cm"

GPIO.cleanup()