import RPi.GPIO as GPIO #Import GPIO library

import time #Import time library

GPIO.setmode(GPIO.BCM) #Set GPIO pin numbering

TRIG = 23 #Associate pin 23 to TRIG

ECHO = 24 #Associate pin 24 to ECHO

print "Distance measurement in progress"

GPIO.setup(TRIG,GPIO.OUT) #Set pin as GPIO out

GPIO.setup(ECHO,GPIO.IN) #Set pin as GPIO in

while True:

GPIO.output(TRIG, False) #Set TRIG as LOW

print "Waitng For Sensor To Settle"

time.sleep(2) #Delay of 2 seconds

GPIO.output(TRIG, True) #Set TRIG as HIGH

time.sleep(0.00001) #Delay of 0.00001 seconds

GPIO.output(TRIG, False) #Set TRIG as LOW

while GPIO.input(ECHO)==0: #Check whether the ECHO is LOW

pulse\_start = time.time() #Saves the last known time of LOW pulse

while GPIO.input(ECHO)==1: #Check whether the ECHO is HIGH

pulse\_end = time.time() #Saves the last known time of HIGH pulse

pulse\_duration = pulse\_end - pulse\_start #Get pulse duration to a variable

distance = pulse\_duration \* 17150 #Multiply pulse duration by 17150 to get distance

distance = round(distance, 2) #Round to two decimal points