ASSIGNMENT 3

#!/usr/bin/python

import RPi GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

TRIG = 23

ECHO = 24

Print ("Distance measurement in progress")

GPIO.setmode(TRIG,GPIO.OUT)

GPIO.setmode(ECHO,GPIO. IN)

while True:

GPIO.output(TRIG, False)

print "waiting for sensor to settle"

time.sleep(1)

GPIO.output(TRIG, True)

time.sleep(1)

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)

if distance >2 and distance <400:

print("Distance:",distance-0.5,"cm")

else:

Print("Out of range")