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| --- |
| import RPi.GPIO as GPIO |
|  |  | import time |
|  |  |  |
|  |  | class ultraSonic: |
|  |  | def \_\_init\_\_(self): |
|  |  | GPIO.setmode(GPIO.BOARD) |
|  |  | GPIO.setwarnings(False) |
|  |  |  |
|  |  | def operation(self,TRIG,ECHO): |
|  |  | 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(0.5) |
|  |  | GPIO.output(TRIG, True) |
|  |  | time.sleep(0.00001) |
|  |  | GPIO.output(TRIG, False) |
|  |  | while GPIO.input(ECHO)==0: |
|  |  | pass |
|  |  | pulse\_start = time.time() |
|  |  | #print(pulse\_start) |
|  |  | while GPIO.input(ECHO)==1: |
|  |  | pass |
|  |  | pulse\_end = time.time() |
|  |  | #print(pulse\_end) |
|  |  | pulse\_duration = pulse\_end - pulse\_start |
|  |  | distance = pulse\_duration \* 17000 |
|  |  | #distance = round(distance, 2) |
|  |  | if (int(distance)<10): |
|  |  | print("Distance: "+str(distance)+"cm") |
|  |  | GPIO.cleanup() |
|  |  |  |
|  |  | while True: |
|  |  | print("Sensor 2") |
|  |  | ultraSonic().operation(16,18) |
|  |  | time.sleep(0.5) |
|  |  | print("Sensor 1") |
|  |  | ultraSonic().operation(38,40) |
|  |  | time.sleep(0.5) |