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import RPi.GPIO as GPIO

import time

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|  | def distancesensor(): |
|  | try: |
|  |  |
|  | GPIO.setmode(GPIO.BOARD) |
|  | GPIO.setwarnings(False) |
|  | PIN\_TRIGGER = 23 |
|  | PIN\_ECHO = 33 |
|  | GPIO.setup(PIN\_TRIGGER, GPIO.OUT) |
|  | GPIO.setup(PIN\_ECHO, GPIO.IN) |
|  | GPIO.output(PIN\_TRIGGER, GPIO.LOW) |
|  |  |
|  |  |
|  | time.sleep(2) |
|  | GPIO.output(PIN\_TRIGGER, GPIO.HIGH) |
|  |  |
|  | time.sleep(0.00001) |
|  |  |
|  | GPIO.output(PIN\_TRIGGER, GPIO.LOW) |
|  |  |
|  | while GPIO.input(PIN\_ECHO)==0: |
|  | pulse\_start\_time = time.time() |
|  | while GPIO.input(PIN\_ECHO)==1: |
|  | pulse\_end\_time = time.time() |
|  |  |
|  | pulse\_duration = pulse\_end\_time - pulse\_start\_time |
|  | global distance |
|  | distance = round(pulse\_duration \* 17150, 2) |
|  | print(distance) |
|  | return distance |
|  |  |
|  |  |
|  | finally: |
|  | GPIO.cleanup() |
|  |  |