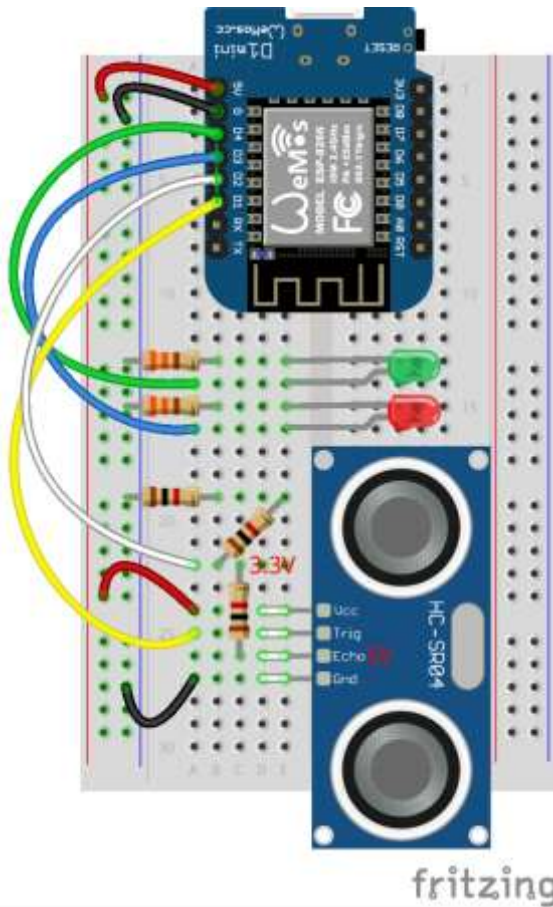




parking radar



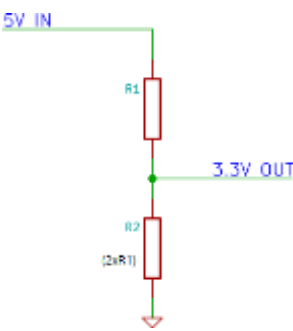
```
1 from machine import Pin
2 from time import sleep_ms
3
4 from board_manager import * # D1 to D8
5 from sensor_manager import Sensor_HCSR04
6
7 green = Pin( D4, Pin.OUT, value=0 )
8 red = Pin( D3, Pin.OUT, value=0 )
9
10 sensor = Sensor_HCSR04( trigger = D1, echo = D2 )
11
12 ALERT_DISTANCE = 10
13 loops = 10000//50
14 while loops:
15     sensor.read()
16     d = sensor.distance_cm
17     if d < ALERT_DISTANCE:
18         green.on()
19         red.off()
20     else:
21         green.off()
22         red.on()
23
24     sleep_ms( 50 )
25     loops = loops - 1 # comment this line to run forever
26
```

WEMOS D1 MINI – PINOUT

The diagram shows the Wemos D1 Mini board with its pins labeled. The top header includes /GPIO1, /GPIO3, /GPIO5, /GPIO4, /GPIO0, /GPIO2, GND, and 5V. The bottom header includes /RST, A0/A1, GPIO16, GPIO14, GPIO12, GPIO13, GPIO15, and 3.3V. The side headers include SPI (SCK, MISO, MOSI, SS), I2C (SDA, SCL), Analog (A0-A5), Control (EN, D0-D5), ESP pin (GND, VCC), and Power (GND, 5V).

GPIO15	GPIO0	GPIO2	Mode	Description
L	L	H	UART	Download code from UART
L	H	H	Flash	Boot from SPI Flash
H	x	x	SDIO	Boot from SD-card

Voltage divider



Ultrasonic Distance Sensor (HC-SR04)

