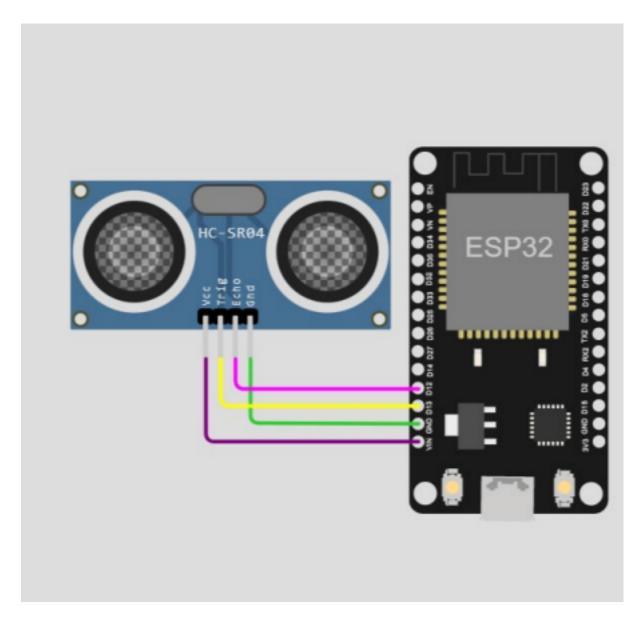
```
#include <stdio.h>
#include <stdbool.h>
#include <freertos/FreeRTOS.h>
#include <freertos/task.h>
#include <esp err.h>
#include "ultrasonic.h"
#define ECHO GPIO 12
#define TRIGGER_GPIO 13
#define MAX_DISTANCE_CM 500
void ultrasonic_test(void *pvParameters)
    float distance;
    ultrasonic_sensor_t sensor = {
        .trigger_pin = TRIGGER_GPIO,
        .echo_pin = ECHO_GPIO
    };
    ultrasonic_init(&sensor);
    while (true) {
        esp_err_t res = ultrasonic_measure(&sensor, MAX_DISTANCE_CM,
&distance);
        if (res == ESP_OK) {
            printf("Distance=%0.05f m\n", distance);
        }
        else {
            printf("Error %d: ", res);
            switch (res) {
                case ESP_ERR_ULTRASONIC_PING:
                    printf("Cannot ping \n");
                case ESP_ERR_ULTRASONIC_PING_TIMEOUT:
                    printf("Ping timeout\n");
                    break;
                case ESP_ERR_ULTRASONIC_ECHO_TIMEOUT:
                    printf("Echo timeout \n");
                    break;
```



OUTPUT:

Distance=4.0564

m

Distance=1.1914

m