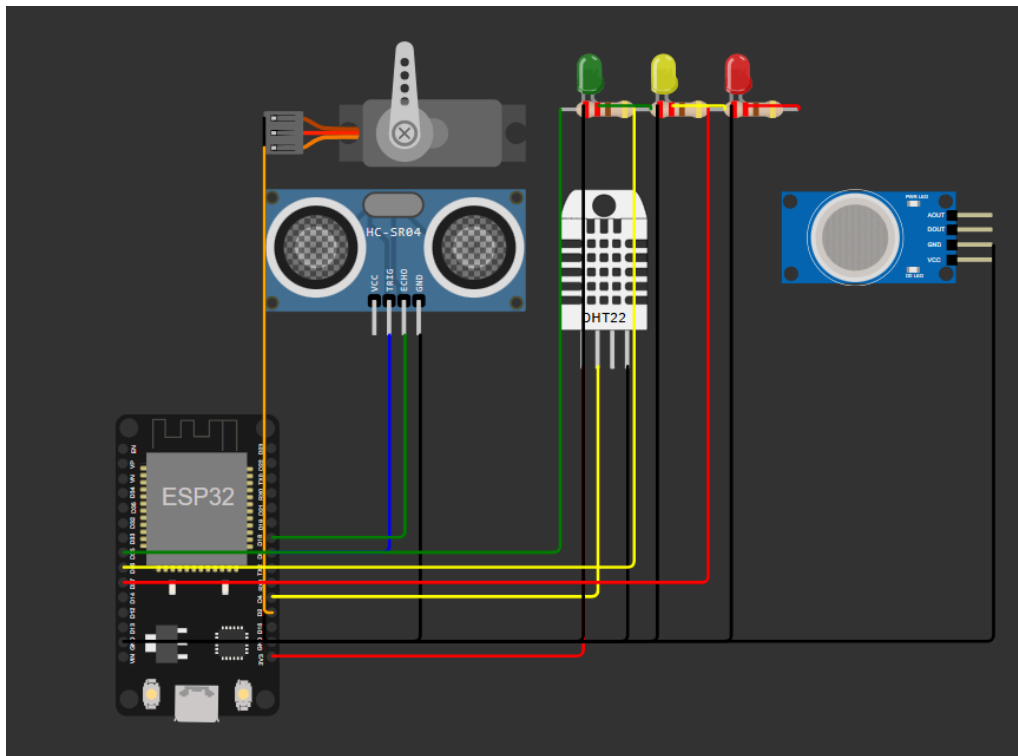
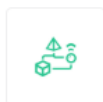


Autonomous Obstacle Avoiding robot using Wokwi and Blynk

1. The circuit



2. Blynk Board



Obstacle Avoiding Bot

Home

1 Devices

+ New Device

Device name

Obstacle bot

3. System Initialization

```
[7835] Connecting to blynk.cloud:80
[8484] Redirecting to blr1.blynk.cloud:80
[8486] Connecting to blr1.blynk.cloud:80
[9182] Ready (ping: 113ms).
🌐 Connected to Blynk Cloud!
```

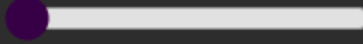
```
🤖 OBSTACLE AVOIDING ROBOT WITH TELEMATICS 🤖
=====
✅ System Initialized Successfully!
📡 Sensors: Ultrasonic, DHT22, MQ135
🚗 Motors: Direct ESP32 Control
🌐 Blynk: Connected for Remote Monitoring
🎯 Mission: Autonomous Navigation Started
```

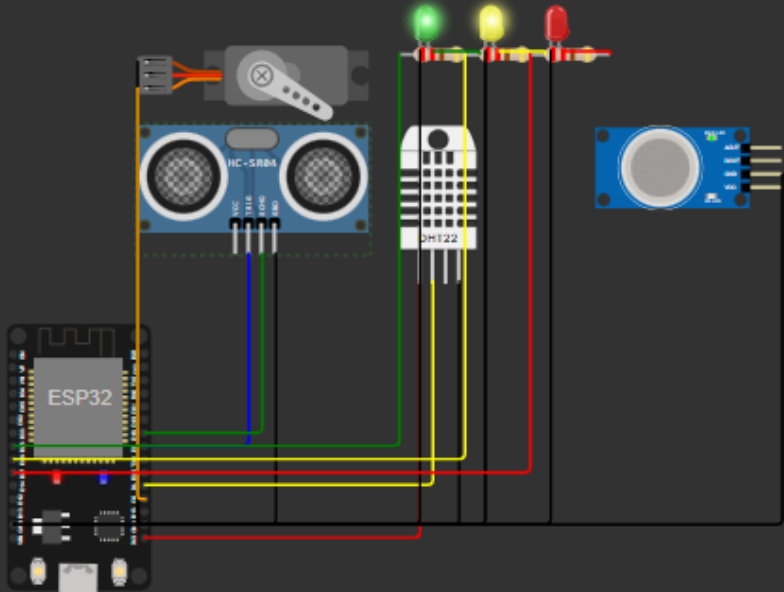
4. Initial movements

```
📊 ===== SENSOR DATA SENT TO BLYNK =====
🌡️ Temperature: 24.0°C
💧 Humidity: 40.0%
🗑️ Air Quality: 261 PPM
📏 Distance: 399 cm
🚨 Obstacle: ✅ NO
🤖 Status: 🚀 Moving Forward
=====
```

5. Object Detected

Editing Ultrasonic Distance Sensor

Distance:  2cm



Distance: 399 cm
🚨 Obstacle: ☒ NO
🤖 Status: 🚀 Moving Forward

=====

⚠️ OBSTACLE! Distance: 1cm
🔍 Scanning...

⚠️ OBSTACLE! Distance: 1cm
🔍 Scanning...
📊 Left: 1cm | Right: 1cm
🔄 Reversing

📊 ===== SENSOR DATA SENT TO BLYNK =====
🌡️ Temperature: 24.0°C
💧 Humidity: 40.0%
🗑️ Air Quality: 238 PPM
📏 Distance: 1 cm
🔔 Obstacle: ⚠️ YES
🤖 Status: 🔄 Reversing

=====

7. Editable temperature, humidity and gas options

Editing DHT22

Temperature: 24.0°C

Humidity: 84.0%

Gas Sensor

💡 GAS (PPM)

13 ppm