

ASSIGNMENT - 4

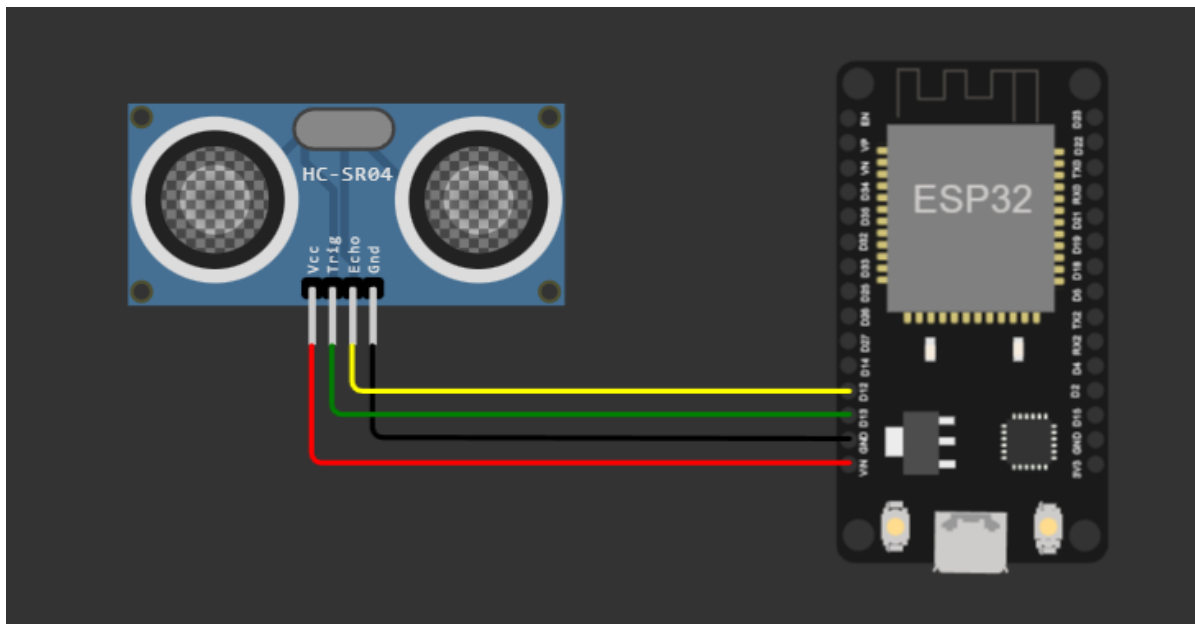
Date	19 September 2022
Team ID	PNT2022TMID21384
Project Name	Gas leakage monitoring and alerting system
Maximum Marks	2 Marks

Objective:

Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cm send an "alert" to the IBM cloud and display in the device recent events.

Circuit Diagram:

Link: <https://wokwi.com/projects/347105584767566420>



OUTPUT:

sketch.ino

diagram.json

libraries.txt

Library Manager

Simulation

00:16.186 94%

Editing Ultrasonic Distance Sensor

Distance: 135cm

ESP32

Publish ok

Sending payload: {"Distance":134.96,"MESSAGE":"SAFE"}

Publish ok

Sending payload: {"Distance":134.96,"MESSAGE":"SAFE"}

Publish ok

Sending payload: {"Distance":134.98,"MESSAGE":"SAFE"}

Publish ok

sketch.ino

diagram.json

libraries.txt

Library Manager

Simulation

00:28.327 97%

Editing Ultrasonic Distance Sensor

Distance: 99cm

ESP32

Publish ok

Sending payload: {"Distance":98.99,"MESSAGE":"ALERT"}

Publish ok

Sending payload: {"Distance":98.97,"MESSAGE":"ALERT"}

Publish ok

Sending payload: {"Distance":98.97,"MESSAGE":"ALERT"}

Publish ok

Browse

Action

Device Types

Interfaces

Add Device

abcd

Connected

123

Device

Oct 28, 2022 9:18 PM

...

Identity

Device Information

Recent Events

State

Logs

X

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Data	{"Distance":126.96,"MESSAGE":"SAFE"}	json	a few seconds ago
Data	{"Distance":126.99,"MESSAGE":"SAFE"}	json	a few seconds ago
Data	{"Distance":120.99,"MESSAGE":"SAFE"}	json	a few seconds ago
Data	{"Distance":98.97,"MESSAGE":"ALERT"}	json	a few seconds ago
Data	{"Distance":98.97,"MESSAGE":"ALERT"}	json	a few seconds ago

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0 Simulations running