ASSIGNMENT - 4

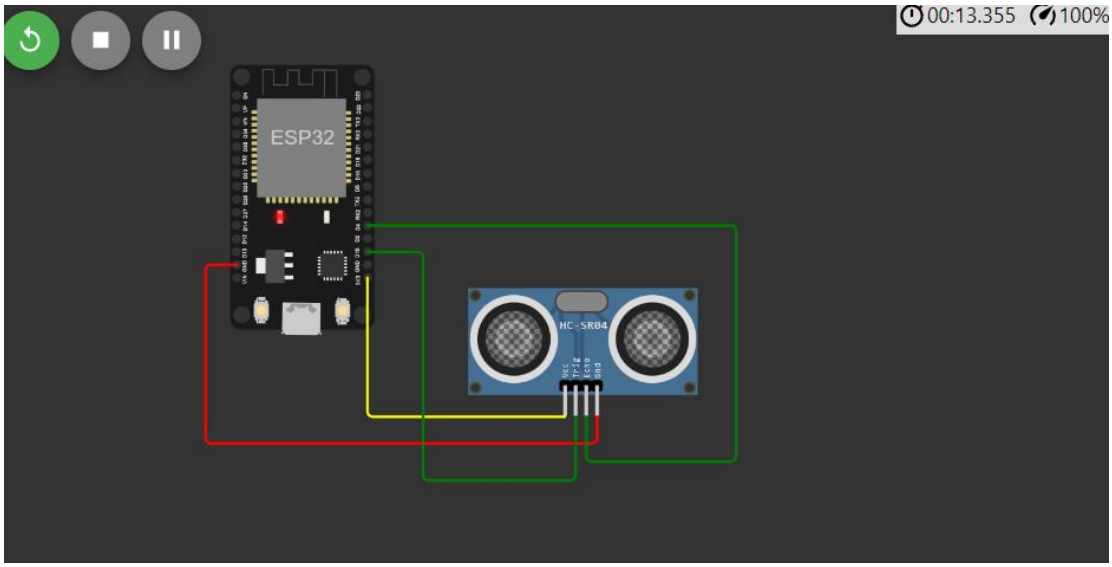
Date	19 September 2022
Team ID	PNT2022TMID21393
Project Name	Personal Assistance for Seniors Who Are Self-Reliant.
Maximum Marks	2 Marks

Objective:

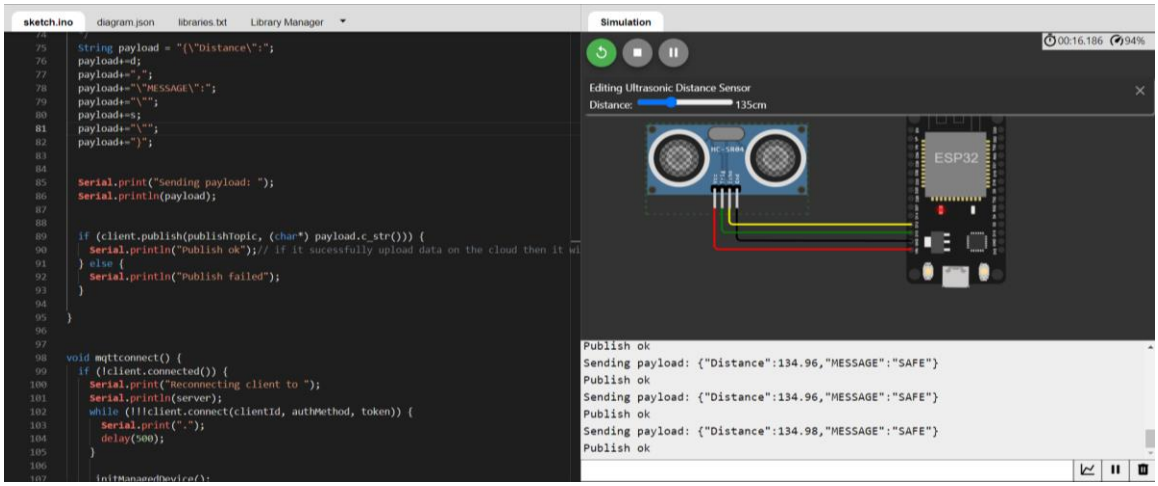
Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events.

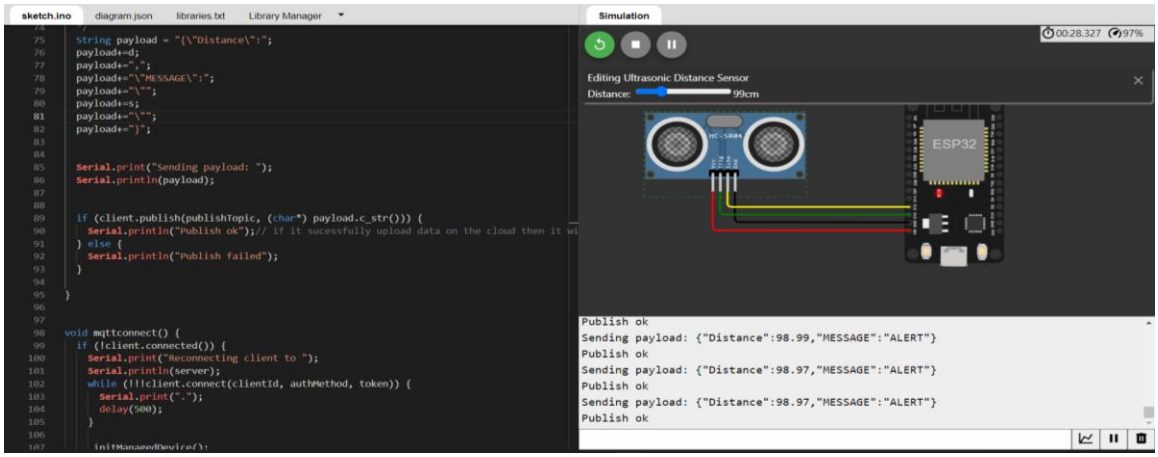
Circuit Diagram:

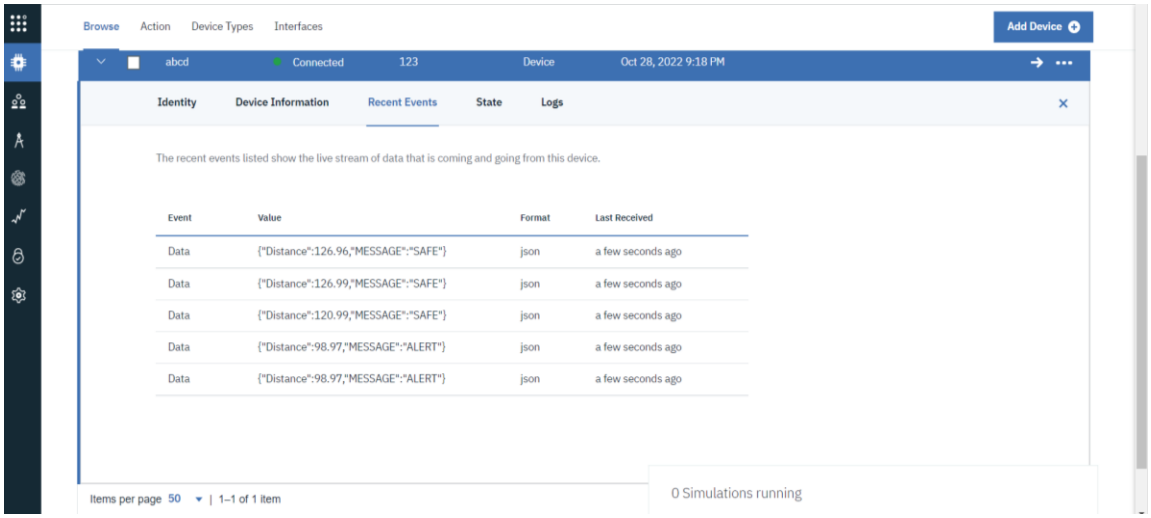
Link: https://wokwi.com/projects/346775166279221842



OUTPUT:


sketch.ino
diagram.json
libraries.txt
Library Manager
Simulation
00:16.186
94%
Editing Ultrasonic Distance Sensor
Distance:
135cm
HC-SR04
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
HC-SR04
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
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
Items per page 50
1–1 of 1 item
0 Simulations running