

ASSIGNMENT - 4

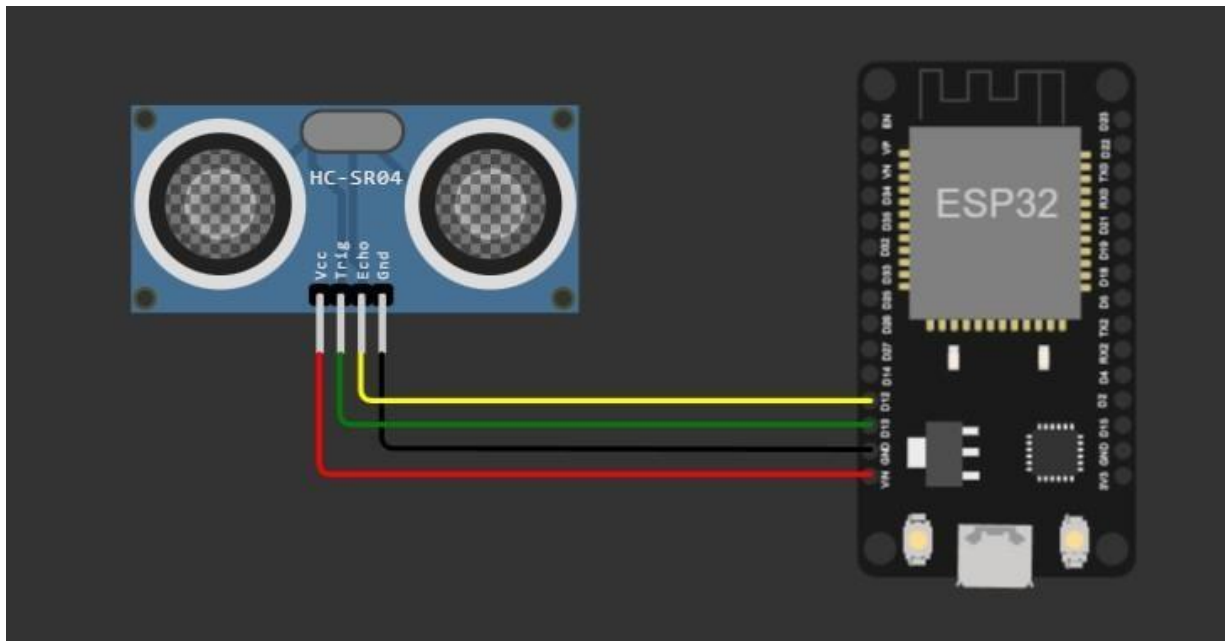
Date	29 October 2022
Team ID	PNT2022TMID25697
Project Name	Personal Assistance for Seniors Who Are Self-Reliant.
Maximum Marks	2 Marks

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:

```

75 String payload = "{\"Distance\": ";
76 payload+=d;
77 payload+=",";
78 payload+=\"MESSAGE\"";
79 payload+=\"}\";
80 payload+=\"\";
81 payload+=\"\";
82 payload+=\"\";
83
84 Serial.print(\"Sending payload: \");
85 Serial.println(payload);
86
87 if (client.publish(publishTopic, (char*) payload.c_str())) {
88   Serial.println(\"Publish ok\"); // If it successfully upload data on the cloud then it will
89 } else {
90   Serial.println(\"Publish failed\");
91 }
92
93
94
95
96
97
98 void mqttconnect() {
99   if (!client.connected()) {
100     Serial.print(\"Reconnecting client to \");
101     Serial.println(server);
102     while (!client.connect(clientId, authMethod, token)) {
103       Serial.print(\".\");
104       delay(500);
105     }
106   }
107   initHumandDevice();

```

Simulation

00:16.186 94%

Editing Ultrasonic Distance Sensor

Distance: 134.96 135cm

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

