<u>6ASSIGNMENT – 4</u>

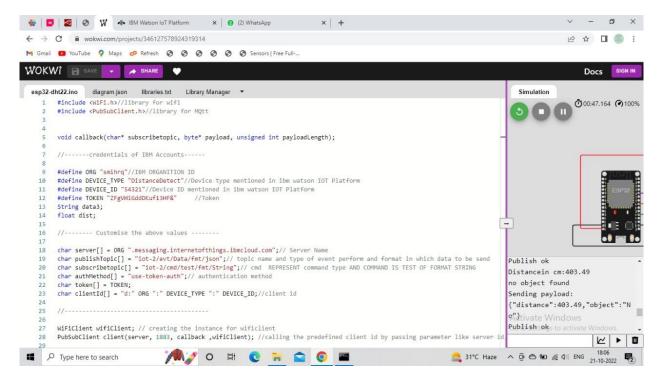
Date	26.10.2022
Team ID	PNT2022TMID27689
Name	Shalini S
Student Roll Number	311419104072
Maximum Marks	2 Marks

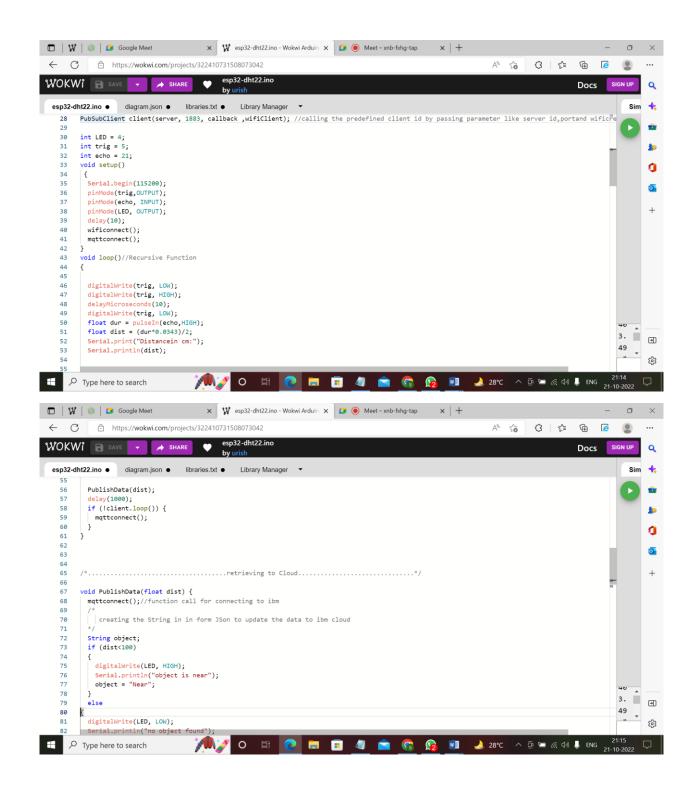
DISTANCE DETECTION USING ULTRASONIC

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.

CODE:

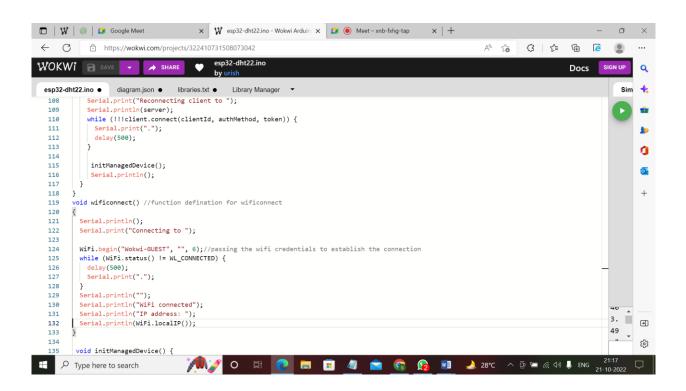


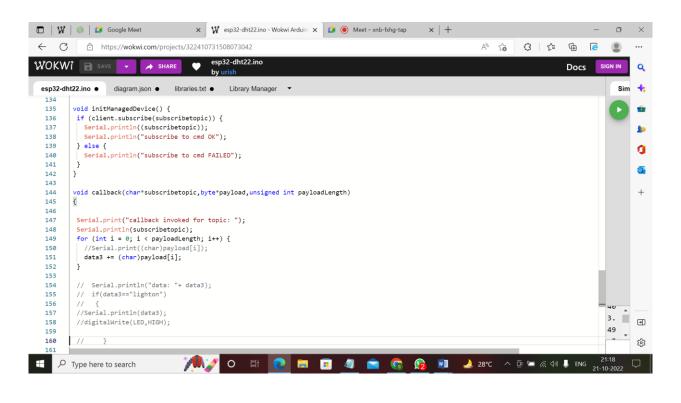


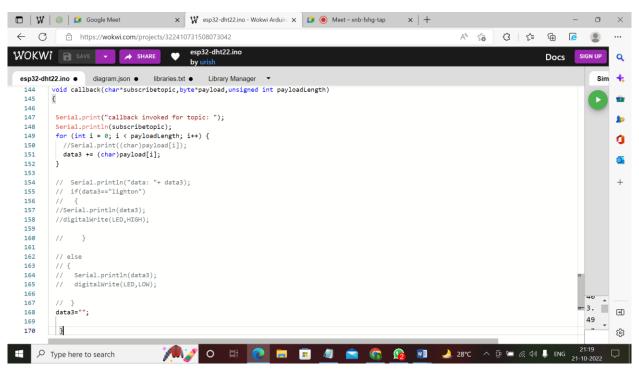
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  esp32-dht22.ino •
                     diagram.json •
                                       libraries.txt ● Library Manager ▼
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            digitalWrite(LED, LOW);
     82
            Serial.println("no object found");
object = "No";
                                                                                                                                                                         -
     84
     85
           String payload = "{\"distance\":";
     86
                                                                                                                                                                         O
           payload += dist;
payload += "," "\"object\":\"";
     88
                                                                                                                                                                         0
           payload += object;
payload += "\"}";
     89
     90
     91
                                                                                                                                                                         +
     92
     93
94
            Serial.print("Sending payload: ");
            Serial.println(payload);
     95
     97
     98
            if (client.publish(publishTopic, (chan*) payload.c_str())) {
| Serial.println("Publish ok");// if it sucessfully upload data on the cloud then it will print publish ok in Serial monitor or else it will | | |
     99
   101
            } else {
              Serial.println("Publish failed");
            }
   103
                                                                                                                                                                 40
                                                                                                                                                                3.
   105
          void mqttconnect() {
                                                                                                                                                                49
            if (!client.connected()) {
   107
                                                                                                                                                                         (3)
              Serial.print("Reconnecting client to_");
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OUTPUT:

