ASSIGNMENT-4

Date	30 October 2022
Team ID	PNT2022TMID39619
Name	Surya M
Student Roll Number	510619104072
Maximum Marks	2 Marks

Problem Statement:

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

CODE:

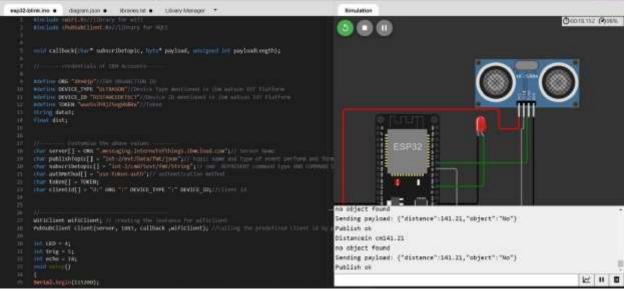
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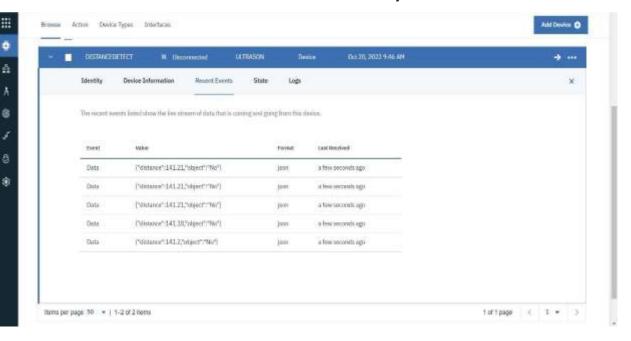
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                                        libraries.txt .
                                                         Library Manager *
          WiFi.begin("Wokwi-GUEST", "", 6);//passing the wifi credentials to establish the connection
while (WiFi.status() != WL_CONNECTED) {
            delay(500);
             Serial print(".");
          Serial.println("");
          Serial.println("WiFi connected");
Serial.println("IP address: ");
           Serial.println(WiFi.localIP());
        void initManagedDevice() {
          if (client.subscribe(subscribetopic)) {
            Serial.println((subscribetopic));
             Serial.println("subscribe to cmd OK");
          } else {
   Serial.println("subscribe to cmd FAILED");
        void callback(char* subscribetopic, byte* payload, unsigned int payloadtength)
          Serial.print("callback invoked for topic: ");
 148
          Serial.println(subscribetopic);
          for (int i = 0; i < payloadLength; i++) {</pre>
            data3 += (char)payload[i];
```

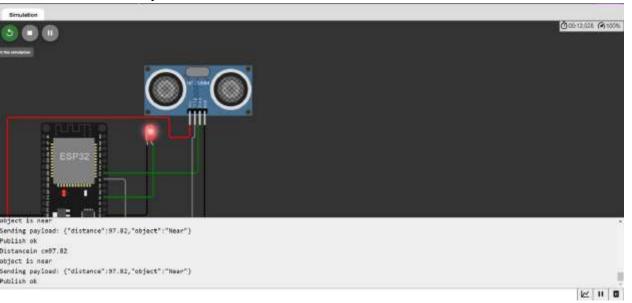
OUTPUT:



Data send to the IBM cloud device when the object is far



when object is near to the ultrasonic sensor



Data sent to the IBM Cloud Device when the object is near

