### **ASSIGNMENT-4**

Date	30 October 2022
Team ID	PNT2022TMID39661
Name	Mohammed Affan C
Student Roll Number	510619104041
Maximum Marks	2 Marks

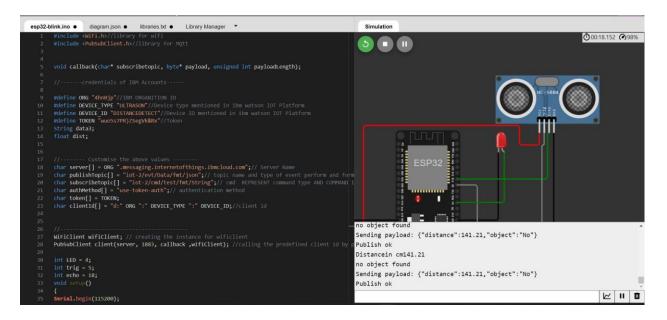
### **Problem Statement:**

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.

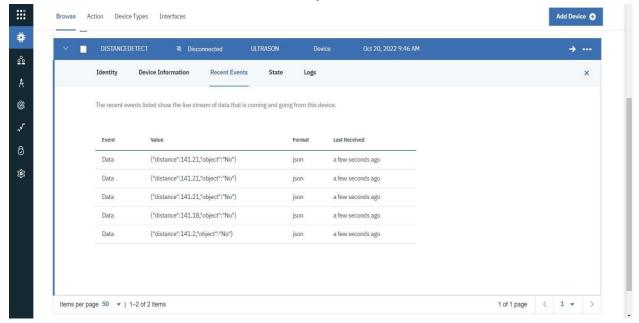
#### CODE:

```
esp32-blink.ino
                   diagram.json •
                                    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 payloadLength)
          Serial.print("callback invoked for topic: ");
 148
          Serial.println(subscribetopic);
          for (int i = 0; i < payloadLength; i++) {</pre>
           data3 += (char)payload[i];
```

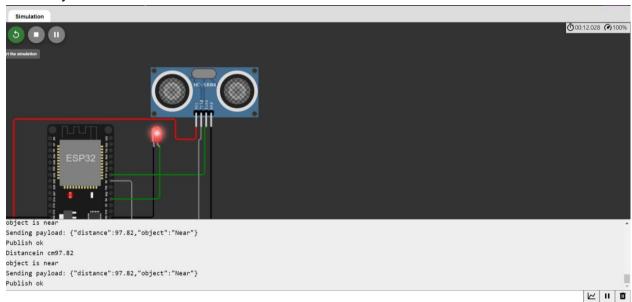
# OUTPUT:



# 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

