ASSIGNMENT - 4

DATE	17 OCTOBER 2022
TEAM ID	PNT2022TMID06972
NAME	SHOWMINI R
STUDENT ROLL NUMBER	GCTC1918L16
MAXIMUM MARKS	2 MARKS

QUESTION:

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.

Upload document with wokwi share link and images of IBM cloud

WOKWI CODE AND IMPLEMENTATION LINK:

https://wokwi.com/projects/346688722332287572

49

50 51 52

54

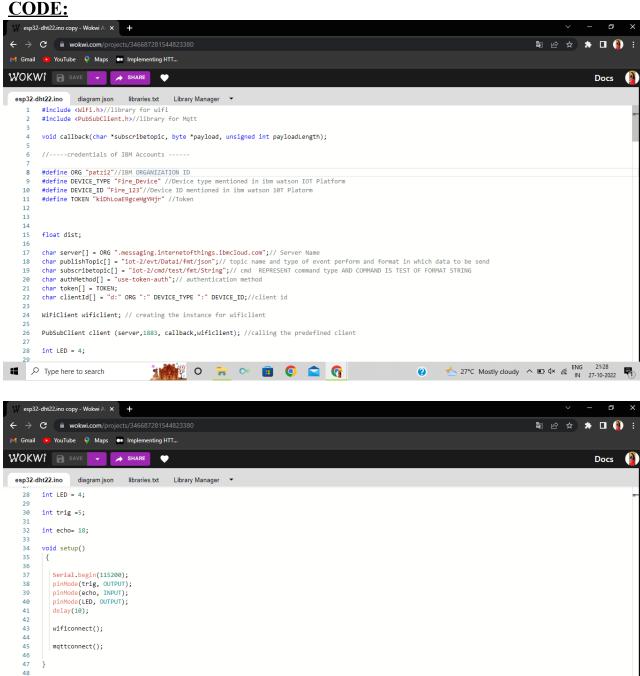
Type here to search

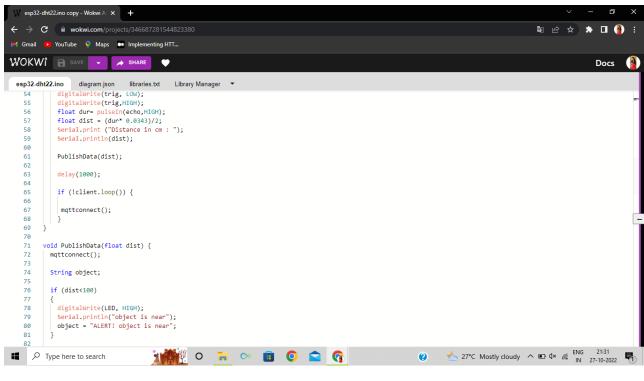
void loop()// Recursive Function

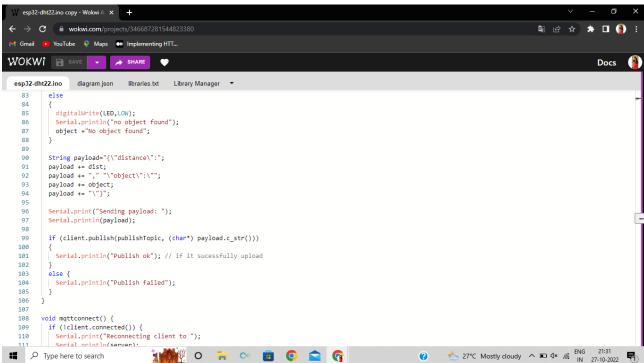
delayMicroseconds(10): digitalWrite(trig, LOW);

digitalWrite(trig, LOW); digitalWrite(trig,HIGH);

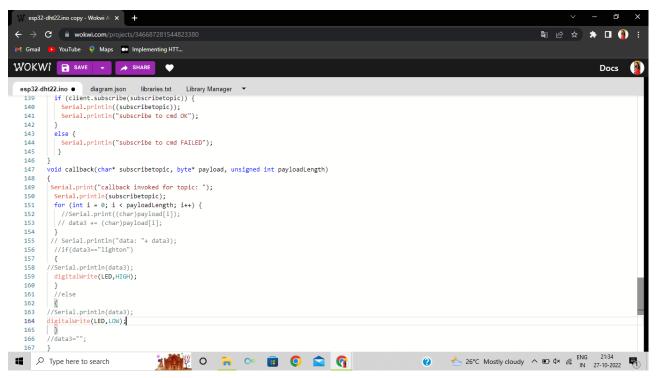
O 🛜 🗠 📋 🔘 😭





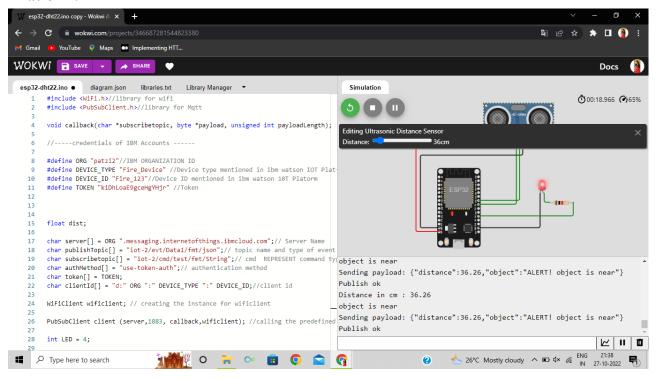


```
W esp32-dht22.ino copy - Wokwi A⊨× +
M Gmail
        🛂 YouTube 👂 Maps 🗪 Implementing HTT...
₩OKWî 🕞 SAVE 🗸 🥕 SHARE 🛡
                                                                                                                                                   Docs
 esp32-dht22.ino diagram.json libraries.txt Library Manager ▼
  111
           Serial.println(server);
           while (!!!client.connect(clientId, authMethod, token)) {
   Serial.print(".");
  112
  113
  114
            delay(500);
  115
  116
           initManagedDevice();
  117
  119
  121
  123
       void wificonnect() //function defination for wificonnect
  124
  125
         Serial.println();
  126
         Serial.print("Connecting to ");
  127
         WiFi.begin("Wokwi-GUEST", "", 6);//passing the wifi credentials to establish the connection
  128
  129
         while (WiFi.status() != WL_CONNECTED) {
  130
           delay(500);
  131
         Serial.print(".");
  132
         Serial.println("");
Serial.println("WiFi connected");
Serial.println("IP address: ");
  134
  135
  136
         Serial.println(WiFi.localIP());
  138
      void initManagedDevice() {
                                                                                                        🦞 O 🔒 🗠 💼 🧿 😭
₩ 7 Type here to search
```

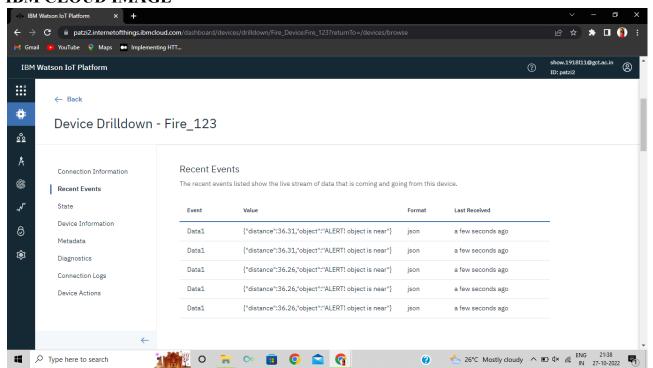


OUTPUT:

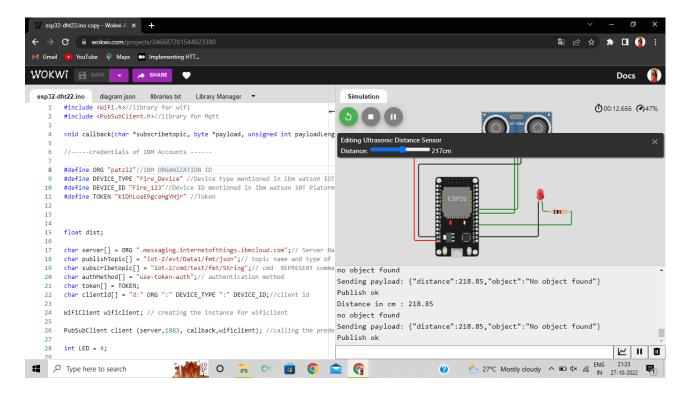
When the distance is less than 100 cms, send an "alert" message to IBM Watson IOT Platform.



IBM CLOUD IMAGE



When the object is far (greater than 100 cms), send "no object found" to the IBM Watson IOT Platform.



IBM CLOUD IMAGE

