ASSIGNMENT-4

DISTANCE DETECTION USING ULTRASONIC SENSOR

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PROJECT TITLE: Gas leakage monitering and alerting system.

Question1:

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

CODE:

```
diagram.jsón diagr
```

```
creating the String in in form JSon to update the data to ibm cloud

f/

String object;
if (dist <100)

{
    digitalWrite(LED, HIGH);
    serial.println("object is near");
    object = "Near";

    digitalWrite(LED, LGN);
    serial.println("no object found");
    object = "No";

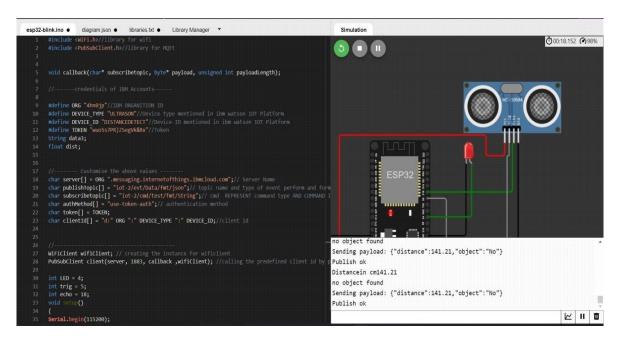
    String payload = "{\"distance\":";
    payload += dist;
    payload += dist;
    payload += "\"\";

    payload += "\"\";

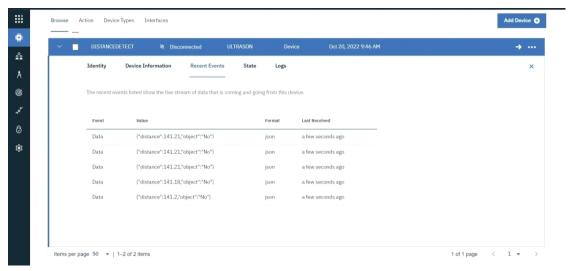
    serial.println(payload);

    Serial.println(payload);
```

OUTPUT:

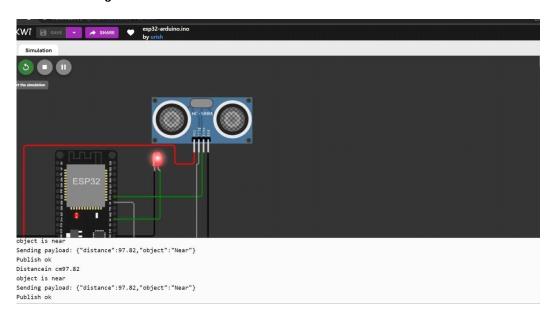


Data send to the IBM cloud device when the object is far



when object is near to the ultrasonic sensor

when object is near to the ultrasonic sensor



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

