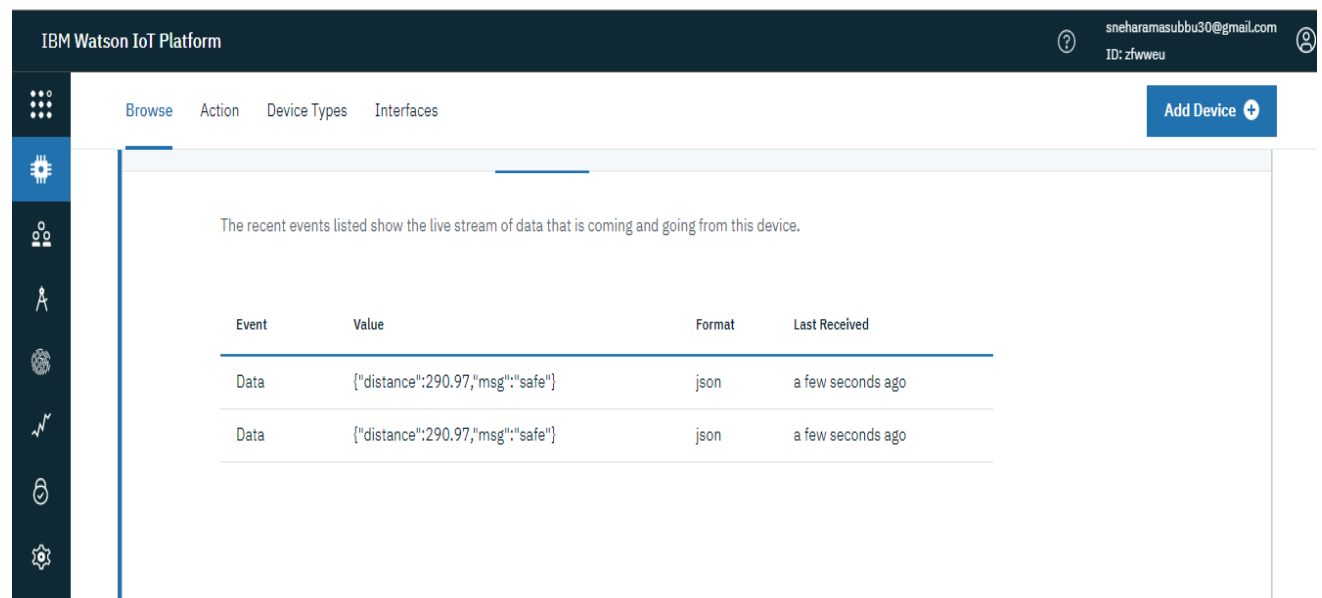
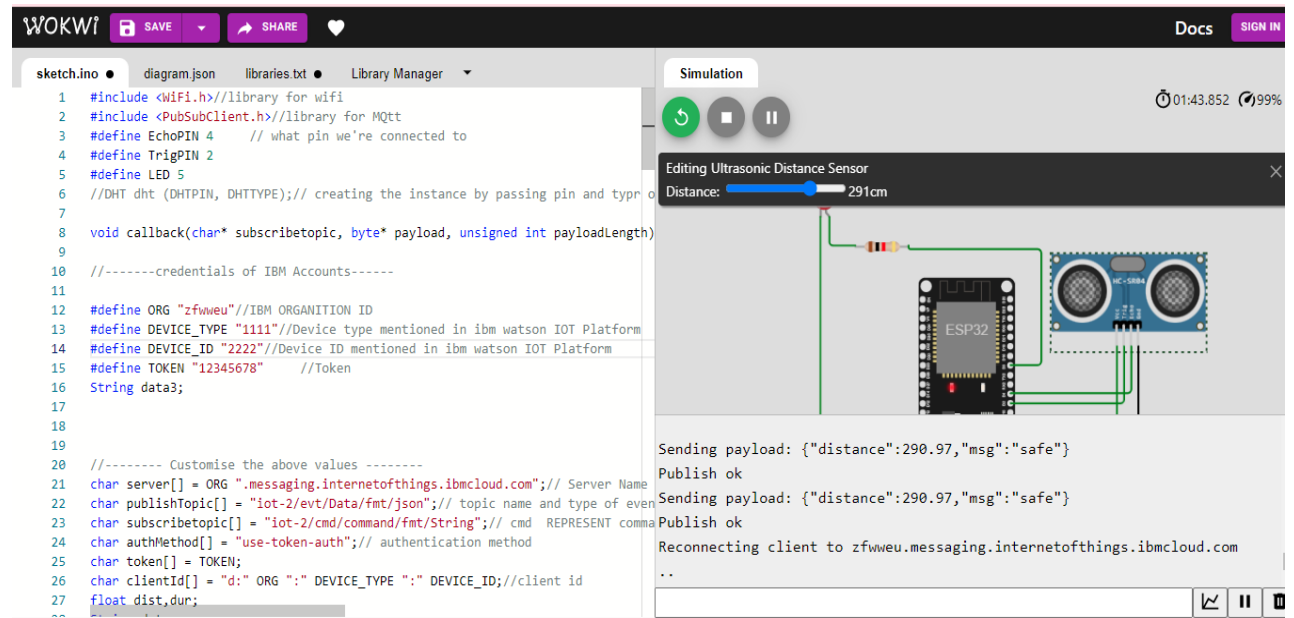


**TEAM ID:PNT2022TMID27943**

**PROJECT TITLE: SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES.**

**Distance when greater than 100cm-alert sent to IBM CLOUD**



## Distance when less than 100cm-alert sent to IBM CLOUD

WOKWI

SAVE

SHARE

Docs

SIGN

sketch.ino

diagram.json

libraries.txt

Library Manager

```
1 #include <WiFi.h> //library for wifi
2 #include <PubSubClient.h> //library for MQTT
3 #define EchoPIN 4 // what pin we're connected to
4 #define TrigPIN 2
5 #define LED 5
6 //DHT dht (DHTPIN, DHTTYPE); // creating the instance by passing pin and type
7
8 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
9
10 //-----credentials of IBM Accounts-----
11
12 #define ORG "zfwweu" //IBM ORGANITION ID
13 #define DEVICE_TYPE "1111" //Device type mentioned in ibm watson IOT Platform
14 #define DEVICE_ID "2222" //Device ID mentioned in ibm watson IOT Platform
15 #define TOKEN "12345678" //Token
16 String data3;
17
18
19
20 //----- Customise the above values -----
21 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Server Name
22 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and type of event
23 char subscribetopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENT command
24 char authMethod[] = "use-token-auth"; // authentication method
25 char token[] = TOKEN;
26 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
27 float dist,dur;
```

Simulation

00:19.063

100%

Publish ok  
Sending payload: {"distance":33.98,"msg":"alert"}  
Publish ok  
Sending payload: {"distance":33.98,"msg":"alert"}  
Publish ok  
Sending payload: {"distance":33.98,"msg":"alert"}  
Publish ok

⏮ ⏸

IBM Watson IoT Platform

sneharamasubbu30@gmail.com

ID: zfwweu

Browse

Action

Device Types

Interfaces

Add Device

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Data	{"distance":33.98,"msg":"alert"}	json	a few seconds ago
Data	{"distance":33.98,"msg":"alert"}	json	a few seconds ago
Data	{"distance":33.98,"msg":"alert"}	json	a few seconds ago
Data	{"distance":33.98,"msg":"alert"}	json	a few seconds ago
Data	{"distance":33.95,"msg":"alert"}	json	a few seconds ago