

ASSIGNMENT 4

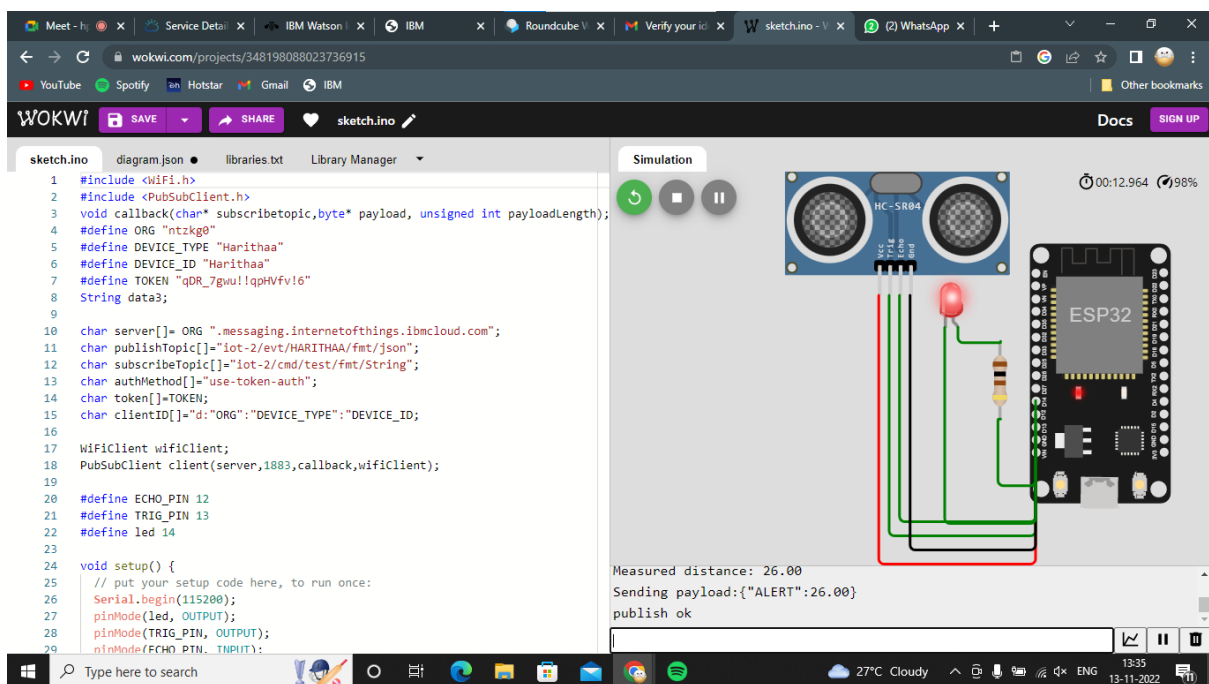
TEAM ID PNT2022TMID01063

DONEBY ----- HARITHAA S[211419106101] [TEAM MEMBER 1]

WOWKI WEB URL:

<https://wokwi.com/projects/348198088023736915>

SNAPSHOTS OF SIMULATION:



WOKWI

sketch.ino

```

1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 void callback(char* topic, byte* payload, unsigned int payloadLength);
4 #define ORG "ntzkg0"
5 #define DEVICE_TYPE "Harithaa"
6 #define DEVICE_ID "Harithaa"
7 #define TOKEN "qDR_7gwul1qHVfv16"
8 String data3;
9
10 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
11 char publishTopic[] = "iot-2/evt/HARITHAA/fmt/json";
12 char subscribeTopic[] = "iot-2/cmd/test/fmt/String";
13 char authMethod[] = "use-token-auth";
14 char tokenID[] = TOKEN;
15 char clientID[] = "d:" + ORG + ":" + DEVICE_TYPE + ":" + DEVICE_ID;
16
17 WiFiClient wificlient;
18 PubSubClient cclient(server, 1883, callback, wificlient);
19
20 #define ECHO_PIN 12
21 #define TRIG_PIN 13
22 #define led 14
23
24 void setup() {
25   // put your setup code here, to run once:
26   Serial.begin(115200);
27   pinMode(led, OUTPUT);
28   pinMode(TRIG_PIN, OUTPUT);
29   pinMode(ECHO_PIN, INPUT);

```

Simulation

Measured distance: 148.00
Sending payload: {"distance":148.00}
publish ok

ntzkg0.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

211419106101@smartinternz.com
ID: ntzkg0

Browse Action Device Types Interfaces

Add Device +

Event	Value	Format	Last Received
HARITHAA	{"distance":131}	json	a few seconds ago
HARITHAA	{"distance":107}	json	a few seconds ago
HARITHAA	{"ALERT":47}	json	a few seconds ago
HARITHAA	{"ALERT":2}	json	a few seconds ago
HARITHAA	{"ALERT":24}	json	a few seconds ago

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Event	Value	Format	Last Received
HARITHAA	{"distance":136}	json	a few seconds ago
HARITHAA	{"ALERT":56}	json	a few seconds ago
HARITHAA	{"distance":131}	json	a minute ago
HARITHAA	{"distance":107}	json	a minute ago
HARITHAA	{"ALERT":47}	json	a minute ago

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Browse Action Device Types Interfaces Add Device +

Event	Value	Format	Last Received
HARITHAA	{"distance":190}	json	a few seconds ago
HARITHAA	{"distance":104}	json	a few seconds ago
HARITHAA	{"distance":136}	json	a few seconds ago
HARITHAA	{"ALERT":56}	json	a few seconds ago
HARITHAA	{"distance":131}	json	a minute ago

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