ASSIGNMENT 4

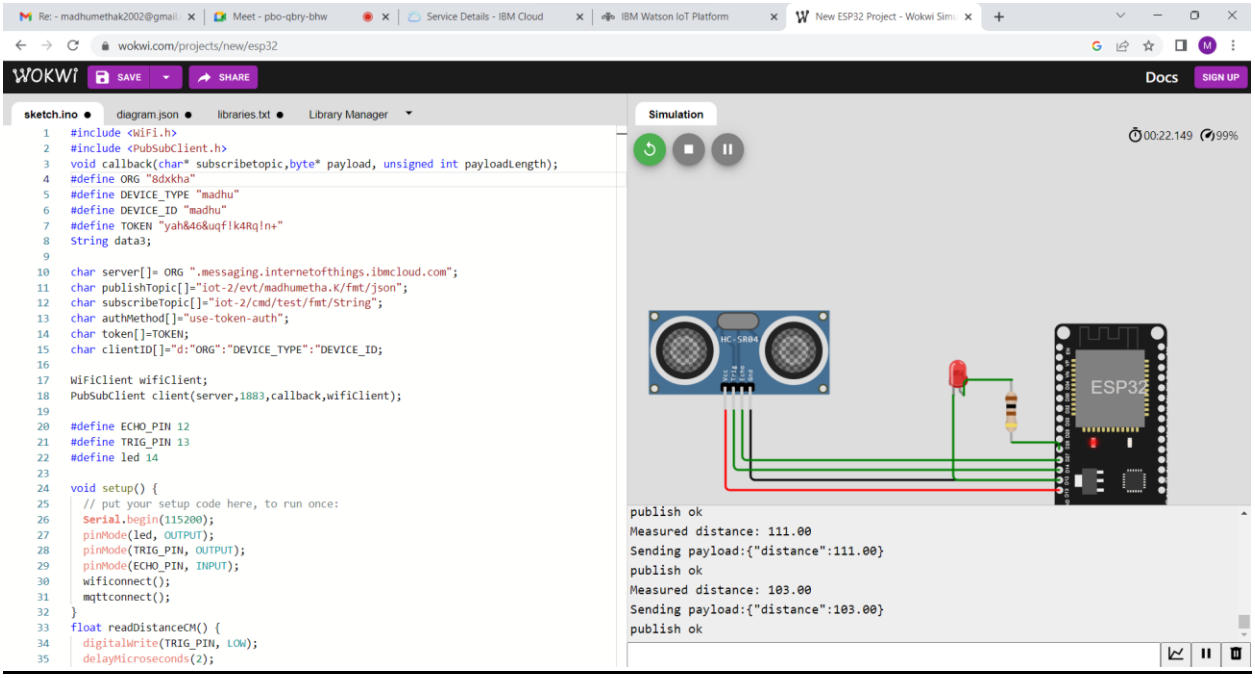
TEAM ID PNT2022TMID01063

DONE BY ------ K.MADHUMETHA (211419106153) [TEAMLEADER]

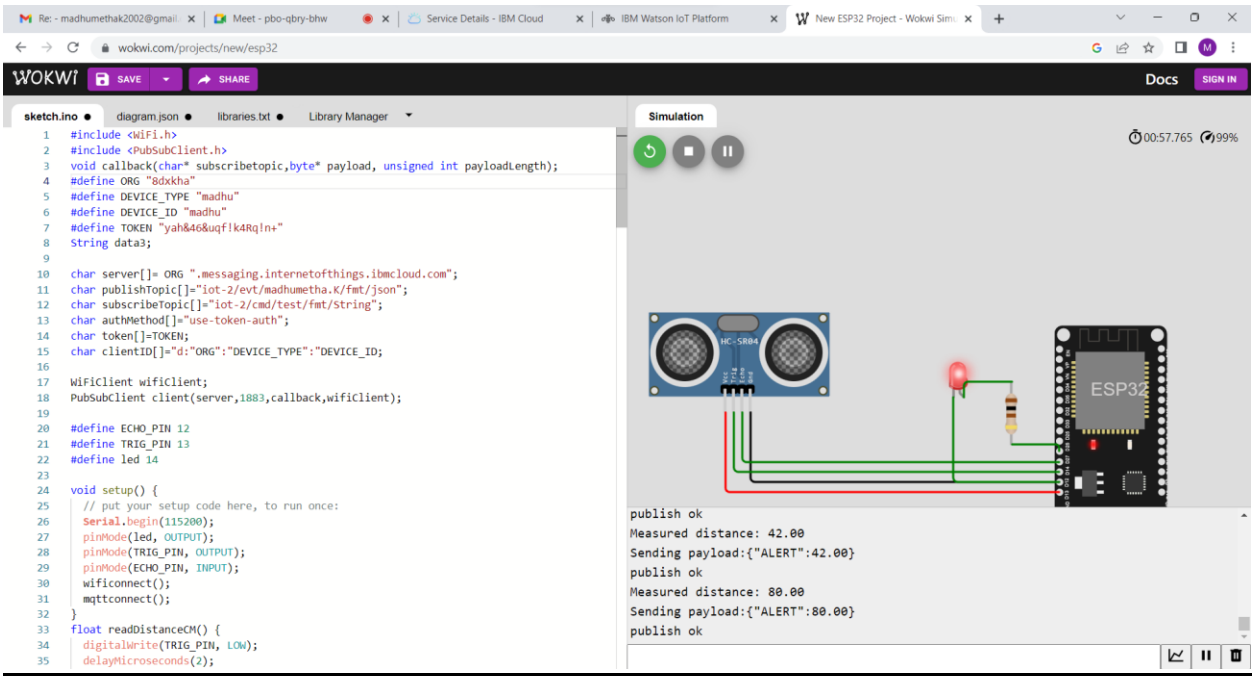
WOWKI WEB URL:

https://wokwi.com/projects/347401291296670292

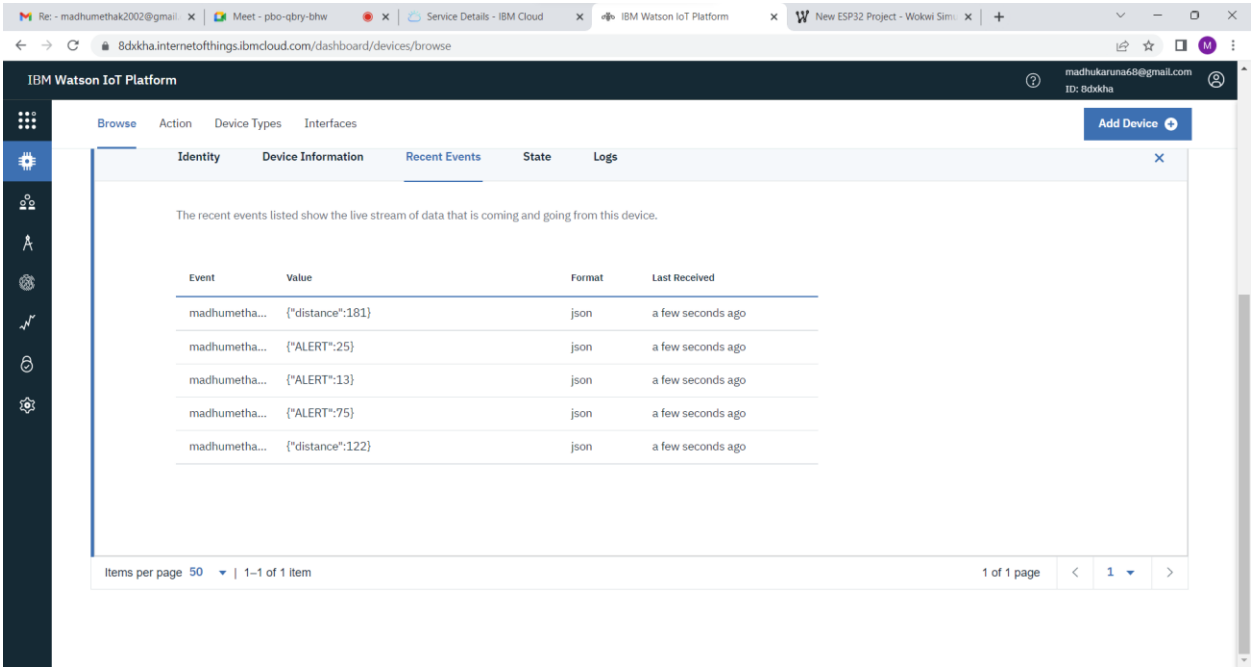
SNAPSHOTS OF SIMULATION:

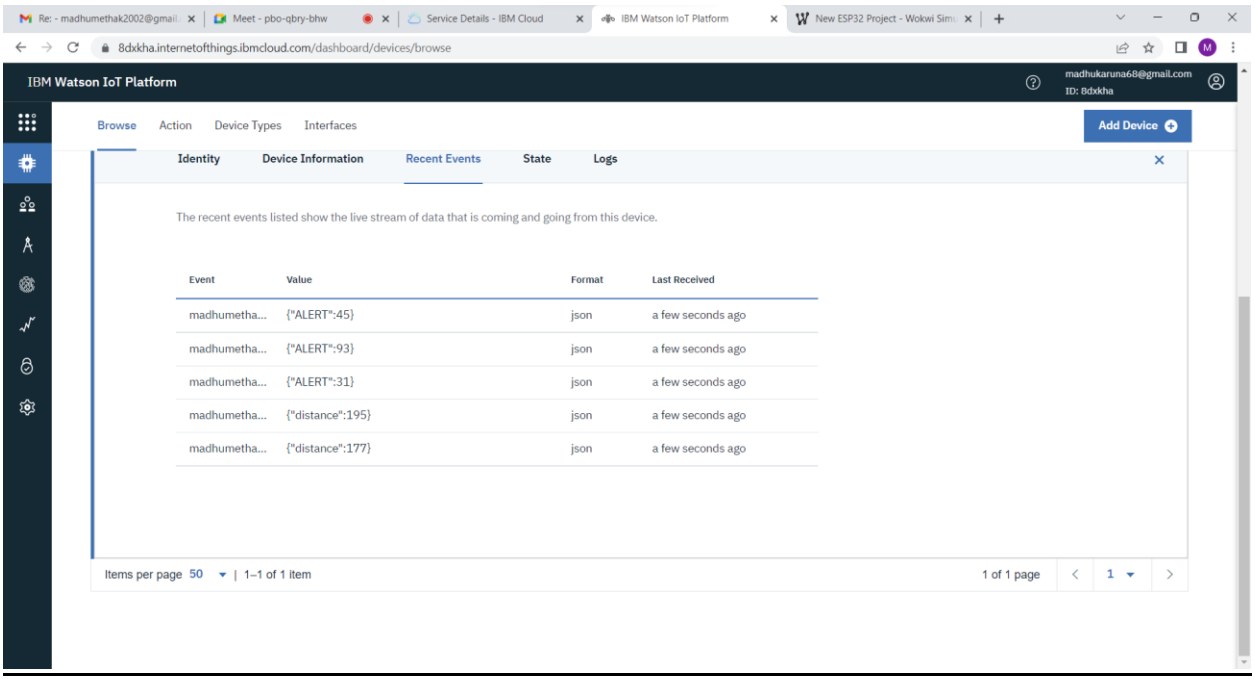


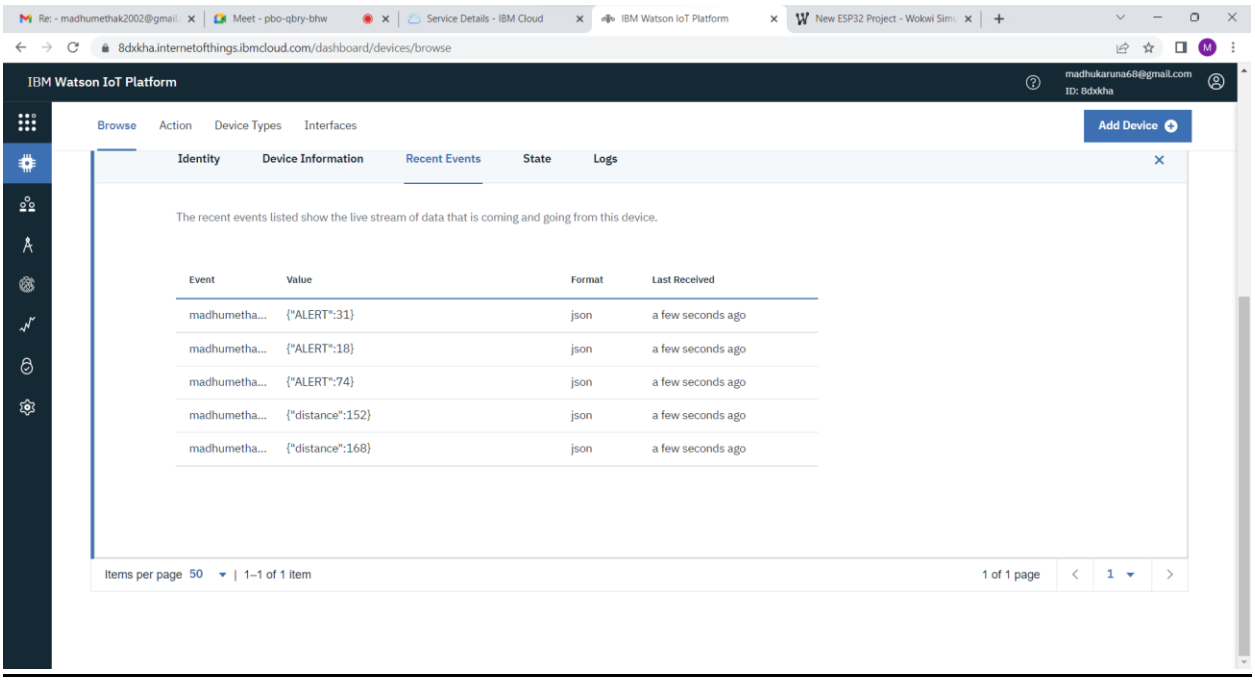

```
#include <WiFi.h>
#include <PubSubClient.h>
void callback(char* subscribetopic,byte* payload, unsigned int payloadLength);
#define ORG "8dxkha"
#define DEVICE_TYPE "madhu"
#define DEVICE_ID "madhu"
#define TOKEN "yah&46&uqf!k4Rq!n+"
String data3;

char server[]= ORG ".messaging.internetofthings.ibmcloud.com";
char publishTopic[]="iot-2/evt/madhumetha.K/fmt/json";
char subscribeTopic[]="iot-2/cmd/test/fmt/String";
char authMethod[]="use-token-auth";
char token[]=TOKEN;
char clientID[]="d:"ORG":"DEVICE_TYPE":"DEVICE_ID;

WiFiClient wifiClient;
PubSubClient client(server,1883,callback,wifiClient);

#define ECHO_PIN 12
#define TRIG_PIN 13
#define led 14

void setup() {
  // put your setup code here, to run once:
  Serial.begin(115200);
  pinMode(led, OUTPUT);
  pinMode(TRIG_PIN, OUTPUT);
  pinMode(ECHO_PIN, INPUT);
  wificonnect();
  mqttconnect();
}
float readDistanceCM() {
  digitalWrite(TRIG_PIN, LOW);
  delayMicroseconds(2);
```



IMAGES OF IBM CLOUD:




IBM Watson IoT Platform
madhukaruna68@gmail.com
ID: 8dxkha
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
madhumetha... {"ALERT":45} json a few seconds ago
madhumetha... {"ALERT":93} json a few seconds ago
madhumetha... {"ALERT":31} json a few seconds ago
madhumetha... {"distance":195} json a few seconds ago
madhumetha... {"distance":177} json a few seconds ago
Items per page 50 | 1–1 of 1 item
1 of 1 page
1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Value
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Last Received
madhumetha... {"ALERT":31} json a few seconds ago
madhumetha... {"ALERT":18} json a few seconds ago
madhumetha... {"ALERT":74} json a few seconds ago
madhumetha... {"distance":152} json a few seconds ago
madhumetha... {"distance":168} json a few seconds ago
Items per page 50 | 1–1 of 1 item
1 of 1 page
1