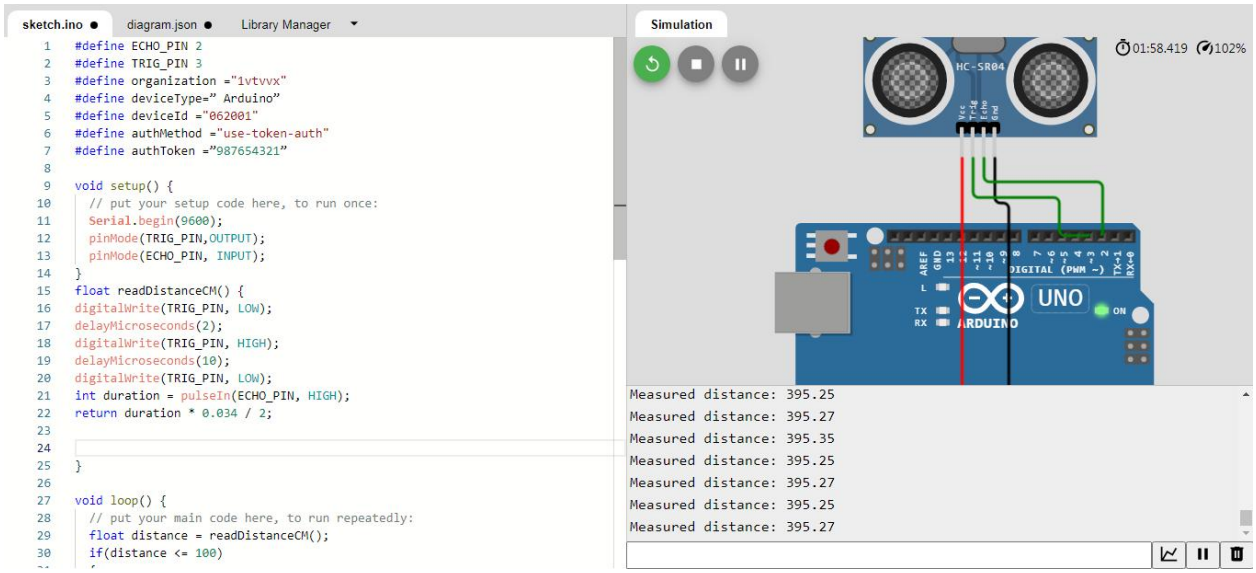
ASSIGNMENT 4

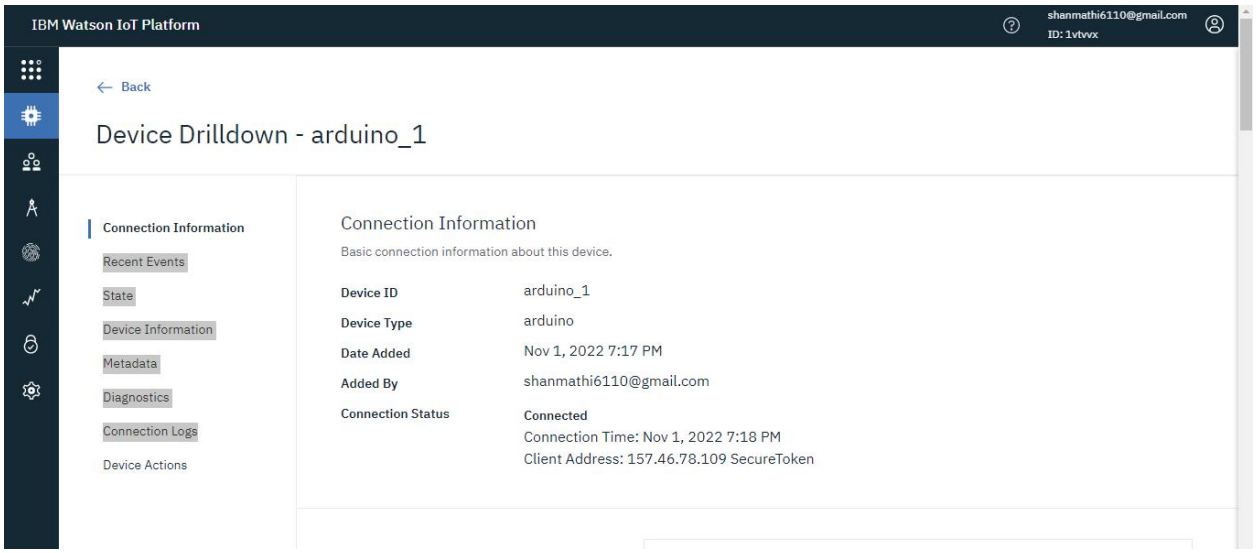
1.Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events. Upload document with wokwi share link and images of IBM cloud

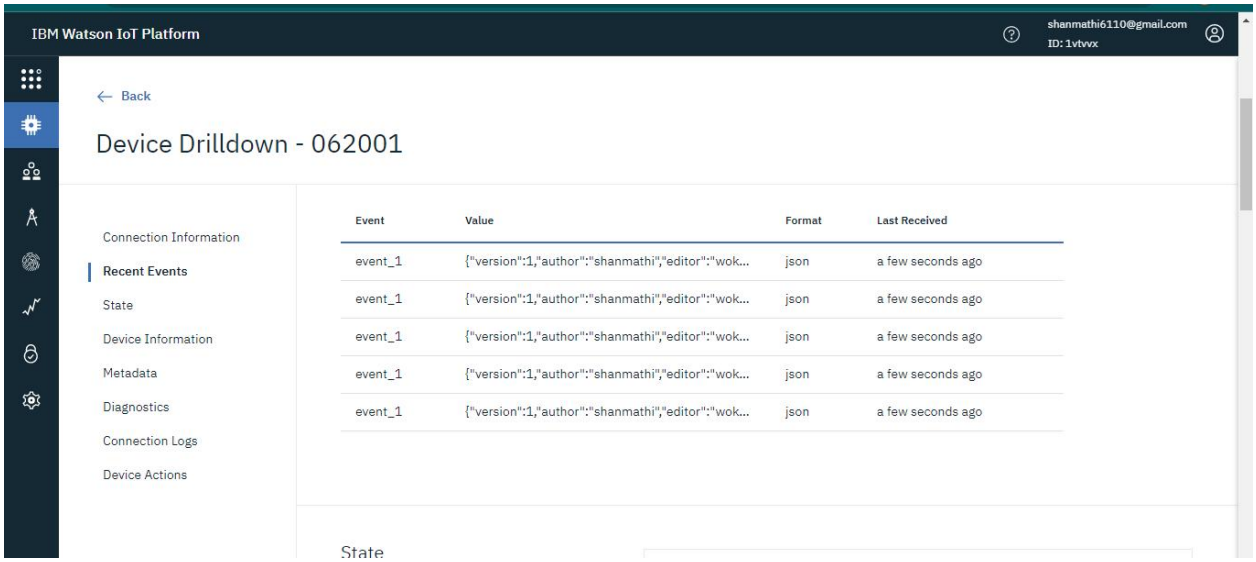
```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization ="1vtvvx"
#define deviceType=” Arduino”
#define deviceId ="062001"
#define authMethod ="use-token-auth"
#define authToken =”987654321”

void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);
  pinMode(TRIG_PIN,OUTPUT);
  pinMode(ECHO_PIN, INPUT);
}
float readDistanceCM() {
digitalWrite(TRIG_PIN, LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, LOW);
int duration = pulseIn(ECHO_PIN, HIGH);
return duration * 0.034 / 2;


}

void loop() {
  // put your main code here, to run repeatedly:
  float distance = readDistanceCM();
```

```
 if(distance <= 100)
 {
  Serial.println("person detected ");
 }
 else{
  Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());
 }
 delay(1000);


}
```

WOKWI PROJECT LINK: https://wokwi.com/projects/347133043913261650




IBM Watson IoT Platform
shanmathi6110@gmail.com
ID: 1vtvvx
Back
Device Drilldown - arduino_1
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Connection Information
Basic connection information about this device.
Device ID
arduino_1
Device Type
arduino
Date Added
Nov 1, 2022 7:17 PM
Added By
shanmathi6110@gmail.com
Connection Status
Connected
Connection Time: Nov 1, 2022 7:18 PM
Client Address: 157.46.78.109 SecureToken


IBM Watson IoT Platform
shanmathi6110@gmail.com
ID: 1vtvvx
Back
Device Drilldown - 062001
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Event
Value
Format
Last Received
event_1
{"version":1,"author":"shanmathi","editor":"wok...
json
a few seconds ago
event_1
{"version":1,"author":"shanmathi","editor":"wok...
json
a few seconds ago
event_1
{"version":1,"author":"shanmathi","editor":"wok...
json
a few seconds ago
event_1
{"version":1,"author":"shanmathi","editor":"wok...
json
a few seconds ago
event_1
{"version":1,"author":"shanmathi","editor":"wok...
json
a few seconds ago
State