ASSIGNMENT 4

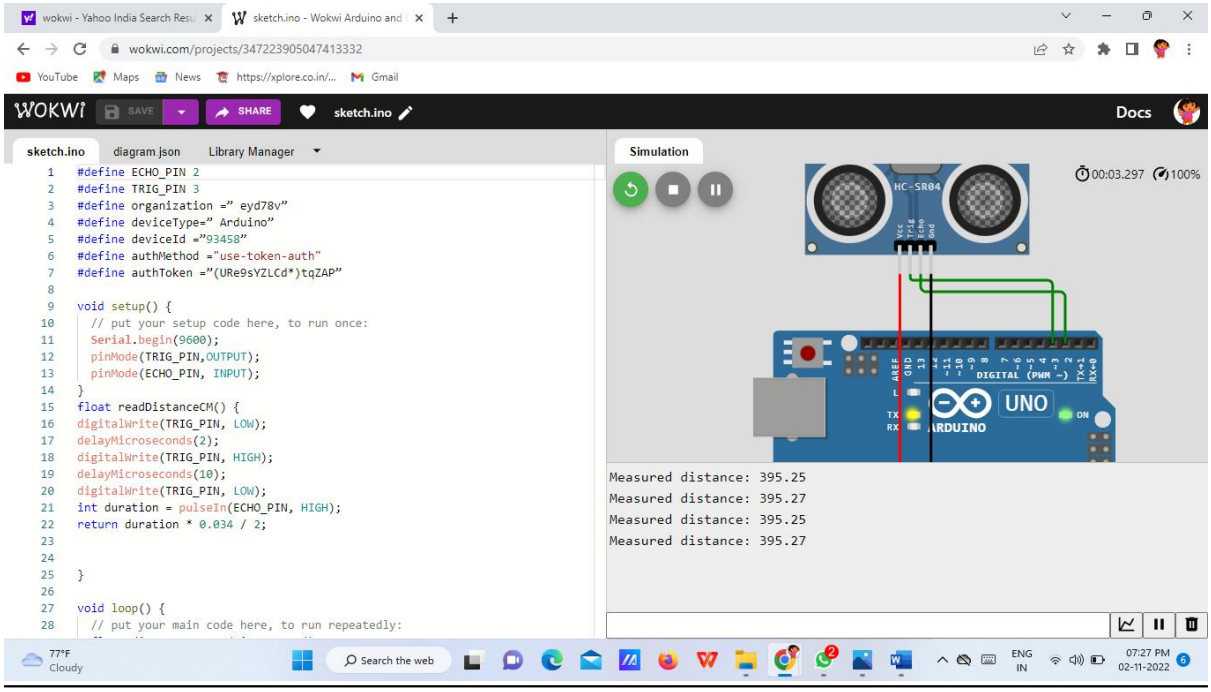
Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cm's send

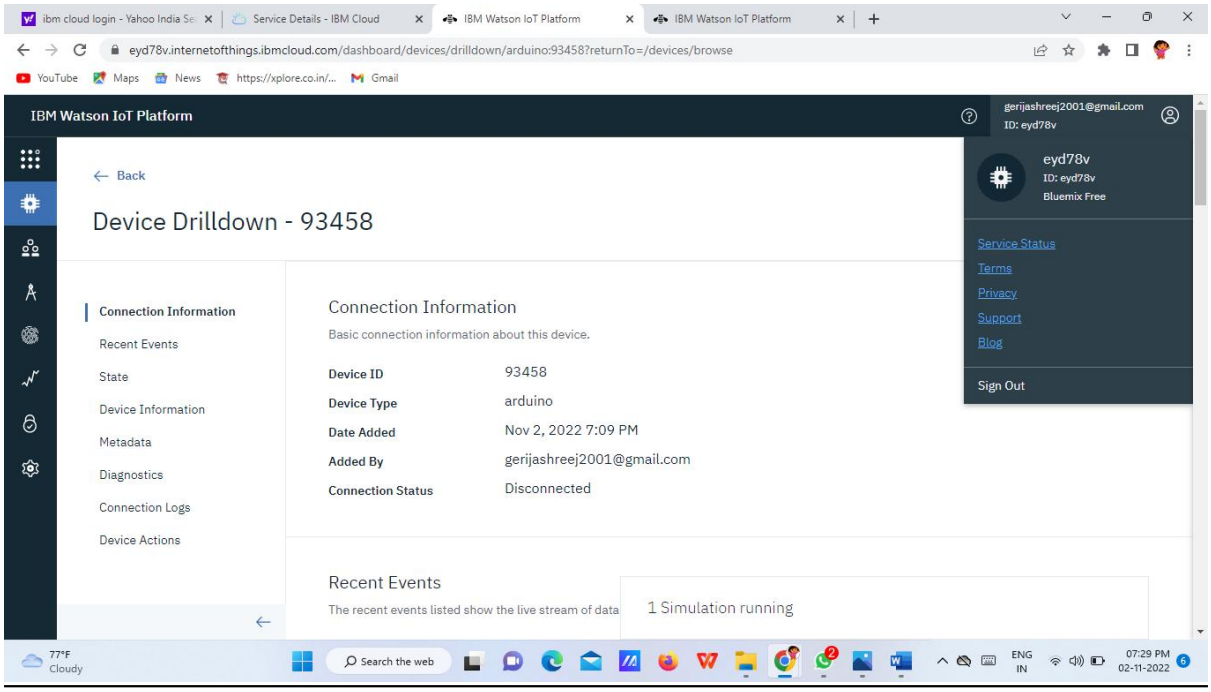
"alert" to IBM cloud and display in device recent events.

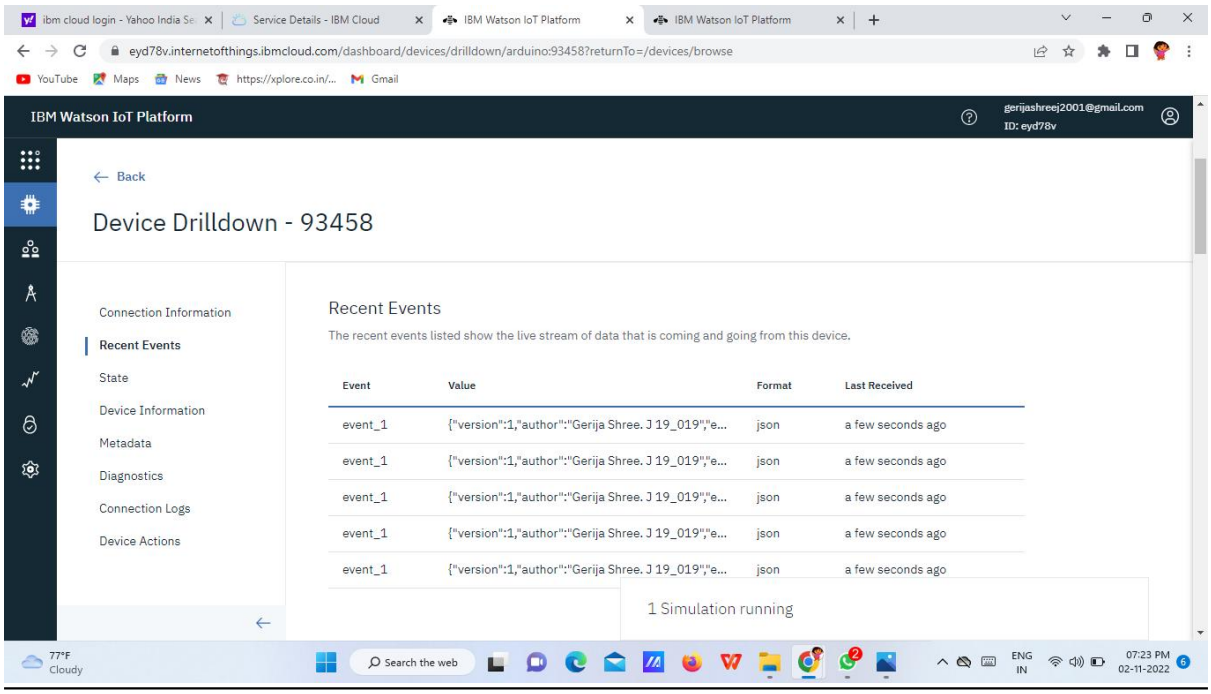
```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization =" eyd78v"
#define deviceType=" Arduino"
#define deviceId ="93458"
#define authMethod ="use-token-auth"
#define authToken ="(URe9sYZLCd*)tqZAP"

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 ASSIGNMENT LINK:

https://wokwi.com/projects/347223905047413332




IBM Watson IoT Platform
gerijashreej2001@gmail.com
ID: eyd78v
Back
Device Drilldown - 93458
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Connection Information
Basic connection information about this device.
Device ID 93458
Device Type arduino
Date Added Nov 2, 2022 7:09 PM
Added By gerijashreej2001@gmail.com
Connection Status Disconnected
eyd78v
ID: eyd78v
Bluemix Free
Service Status
Terms
Privacy
Support
Blog
Sign Out
Recent Events
The recent events listed show the live stream of data
1 Simulation running


IBM Watson IoT Platform
gerijashreej2001@gmail.com
ID: eyd78v
Back
Device Drilldown - 93458
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Recent Events
The recent events listed show the live stream of data that is coming and going from this device.
Event Value Format Last Received
event_1 {"version":1,"author":"Gerija Shree. J 19_019","e... json a few seconds ago
event_1 {"version":1,"author":"Gerija Shree. J 19_019","e... json a few seconds ago
event_1 {"version":1,"author":"Gerija Shree. J 19_019","e... json a few seconds ago
event_1 {"version":1,"author":"Gerija Shree. J 19_019","e... json a few seconds ago
event_1 {"version":1,"author":"Gerija Shree. J 19_019","e... json a few seconds ago
1 Simulation running