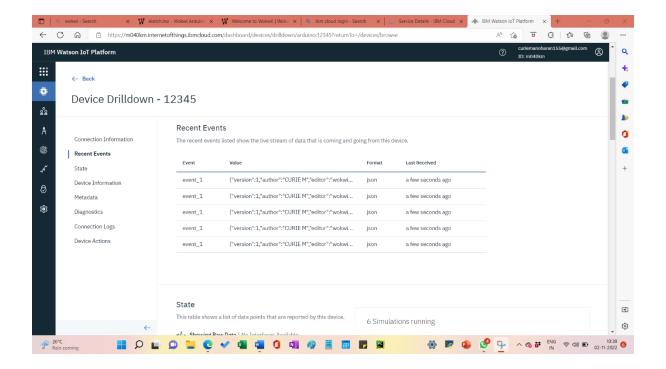
## M.CURIE ASSIGNMENT 4

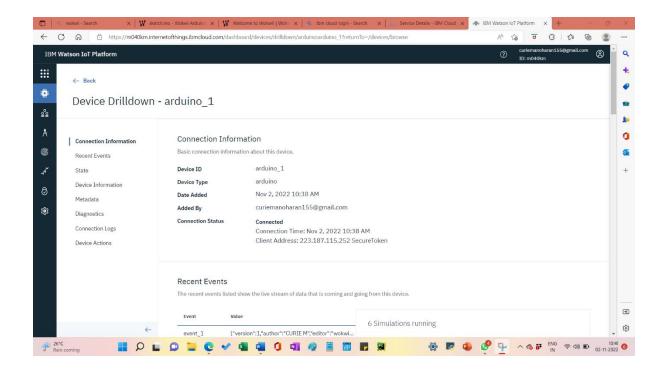
Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cm's send "alert" to IBM cloud and display in device recent

```
#define ECHO PIN 2
#define TRIG_PIN 3
#define organization ="m040km"
#define deviceType=" Arduino"
#define deviceId ="12345"
#define authMethod ="use-token-auth"
#define authToken ="2YvKHr)ujgdHS7y?dM"
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)</pre>
  {
    Serial.println("person detected ");
  }
  else{
    Serial.print("Measured distance: ");
   Serial.println(readDistanceCM());
  delay(1000);
```

}

## WOKWI PROJECT LINK: https://wokwi.com/projects/346952017986454099





```
ฆ่okwi
             SAVE

→ SHARE

 sketch.ino
              diagram.json •
                               Library Manager ~
    1
         #define ECHO PIN 2
    2
         #define TRIG_PIN 3
         #define organization ="m040km"
    3
         #define deviceType=" Arduino"
    4
         #define deviceId ="12345"
         #define authMethod ="use-token-auth"
    6
    7
         #define authToken ="2YvKHr)ujgdHS7y?dM"
    8
    9
         void setup() {
   10
          // put your setup code here, to run once:
           Serial.begin(9600);
   11
   12
          pinMode(TRIG_PIN,OUTPUT);
          pinMode(ECHO_PIN, INPUT);
   13
   14
        float readDistanceCM() {
   15
        digitalWrite(TRIG_PIN, LOW);
   16
        delayMicroseconds(2);
   17
        digitalWrite(TRIG PIN, HIGH);
   18
   19
        delayMicroseconds(10);
   20
        digitalWrite(TRIG_PIN, LOW);
        int duration = pulseIn(ECHO_PIN, HIGH);
   21
        return duration * 0.034 / 2;
   22
   23
   24
   25
         }
   26
   27
         void loop() {
           // put your main code here, to run repeatedly:
   28
   29
           float distance = readDistanceCM();
   30
           if(distance <= 100)</pre>
   31
           {
            Serial.println("person detected ");
   32
   33
           }
   34
           else{
            Serial.print("Measured distance: ");
   35
```

