**Assignment -4**

|  |  |
| --- | --- |
| Assignment Date | 29 October 2022 |
| Student Name | YUVARAJ. K |
| Team ID | PNT2022TMID25689 |
| Project Name | Project-Smart Farmer-IoT Enabled Smart  Farming Application |
| Maximum Marks | 2 Marks |

**Question-1:**

**Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send “alert” to ibm cloud and display in device recent events.**

**Solution:**

#define ECHO\_PIN 2

#define TRIG\_PIN 3

#define organization = “fkxdqs”

#define deviceType = “Arduino”

#define deviceId = “1200”

#define authMethod = “use-token-auth” #define authToken = “00000000” void

setup() { 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() { float distance = readDistanceCM(); if(distance <=

100)

{

Serial.println("person detected ");

}

else{

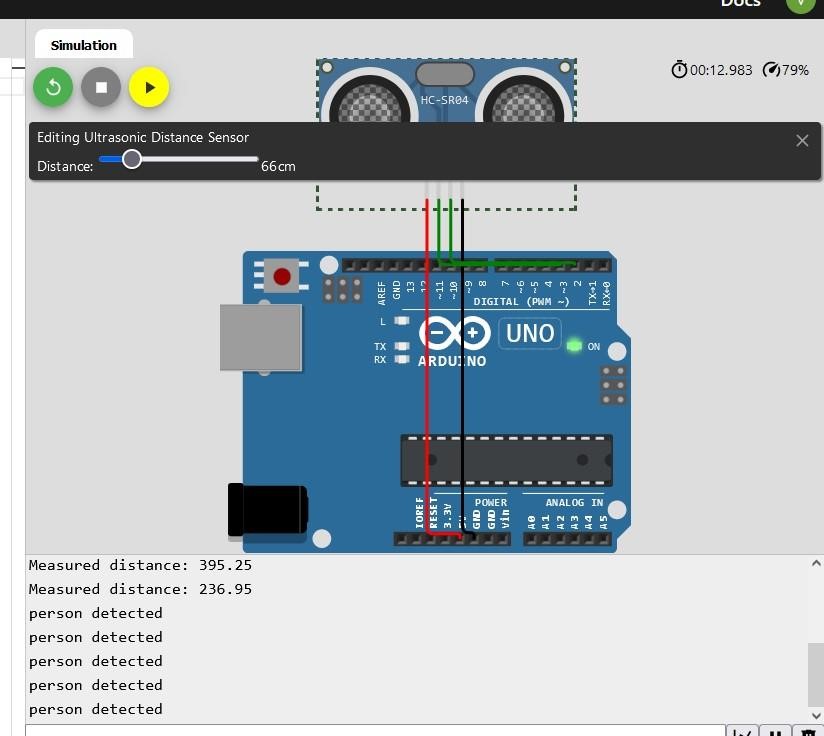
Serial.print("Measured distance: ");

Serial.println(readDistanceCM());

}

delay(1000);

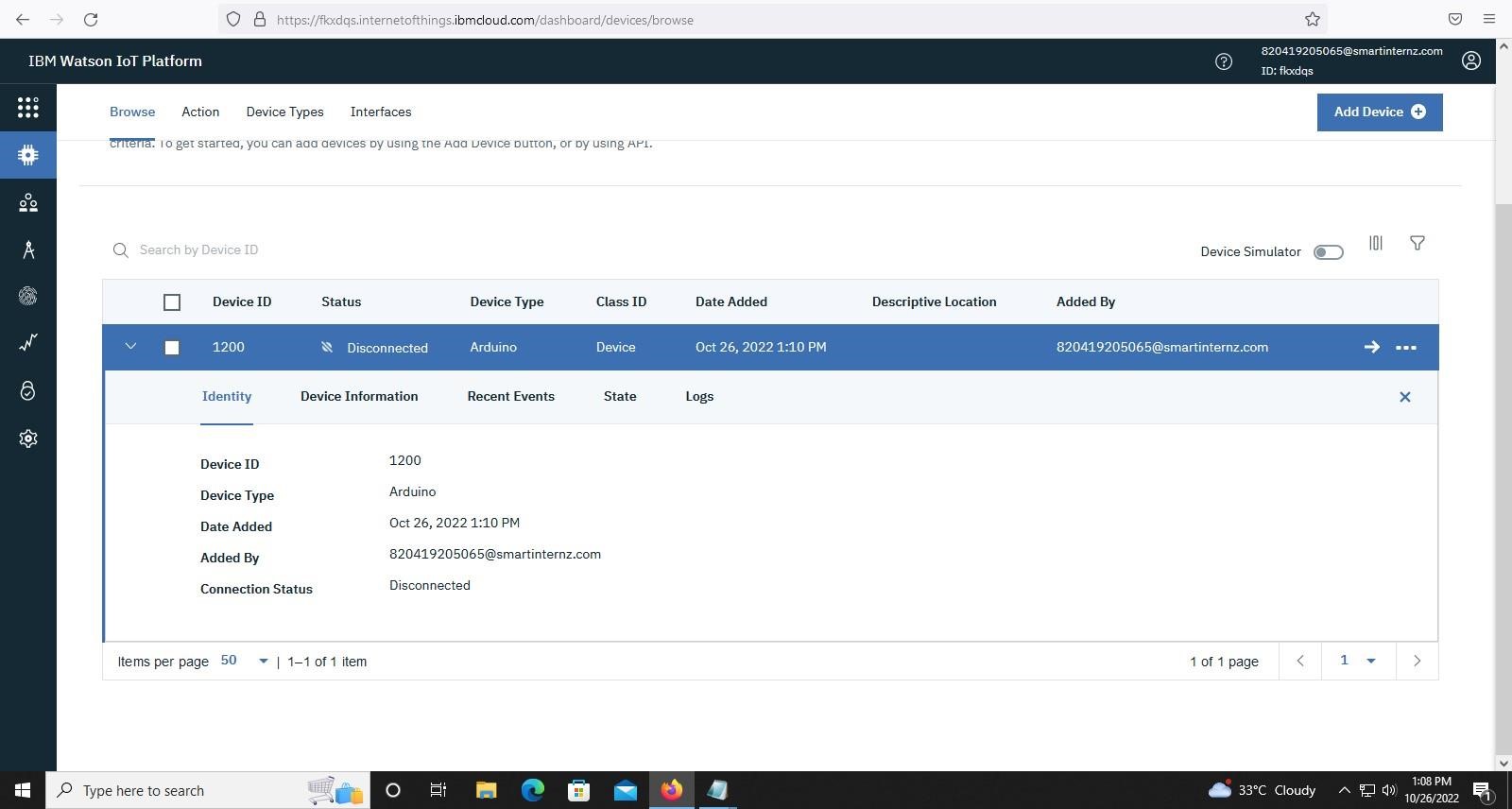
}

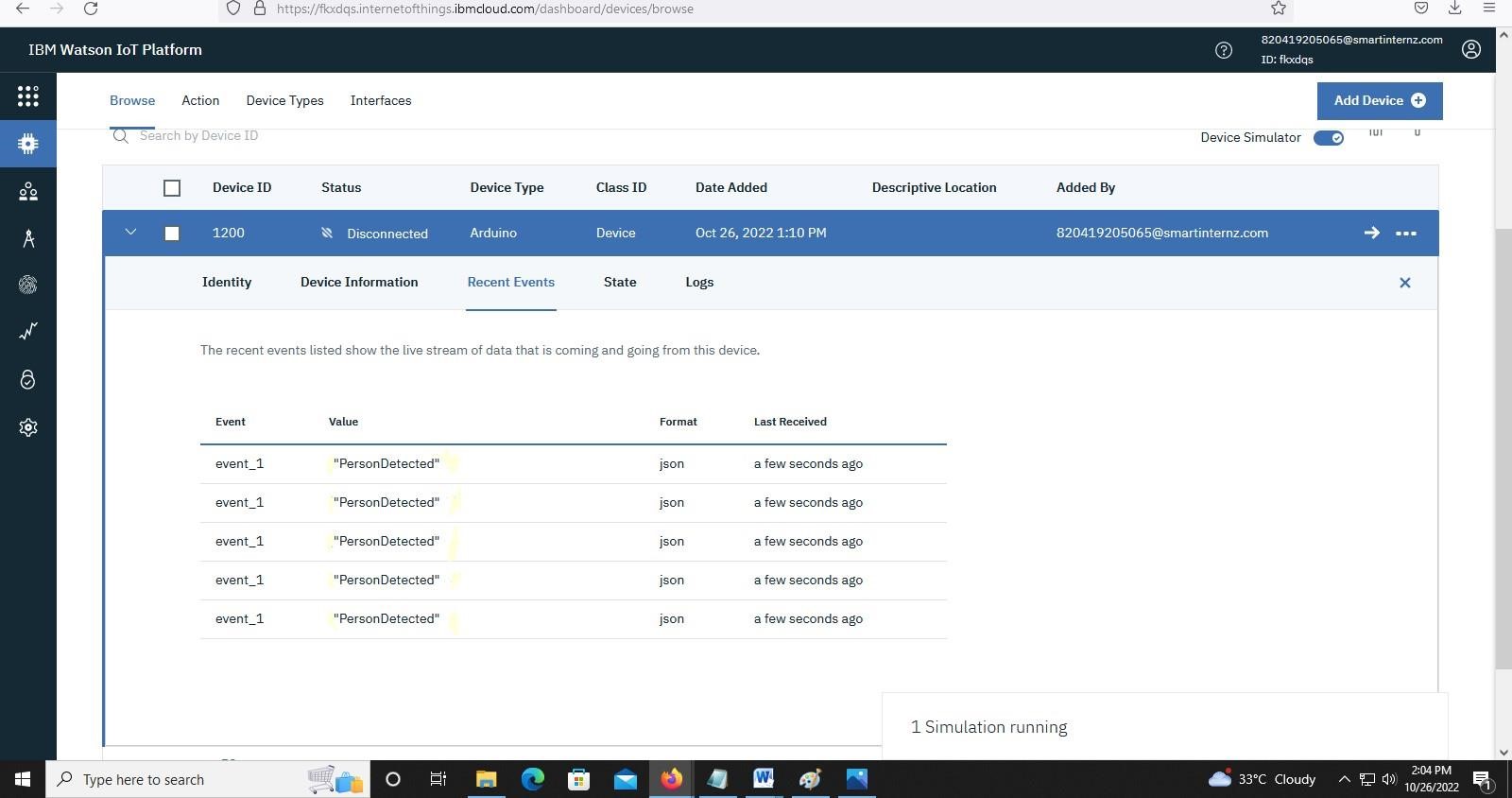


**Wokwi Link:**  https://wokwi.com/projects/346567349532361298

**IBM Cloud**

# Device Recent Events





WOWKI EXECUTION PART WITH ANOTHER CODE:

