ASSIGNMENT - 4

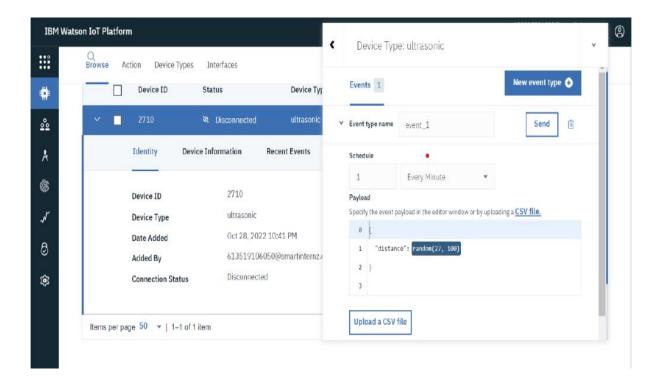
CODE:-

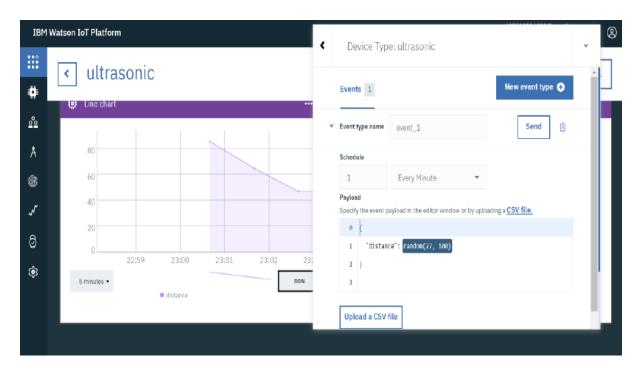
```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization =" rxswes"
#define device type ="ultrasonic"
#define deviceId="2710"
#define authmethod="token"
#define authToken="123456789"
void setup() {
 Serial.begin(115200);
 pinMode(LED_BUILTIN, OUTPUT);
 pinMode(TRIG_PIN, OUTPUT);
 pinMode(ECHO_PIN, 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/346853377517290068

IBM CLOUD:





WOKWI SIMULATION:-

