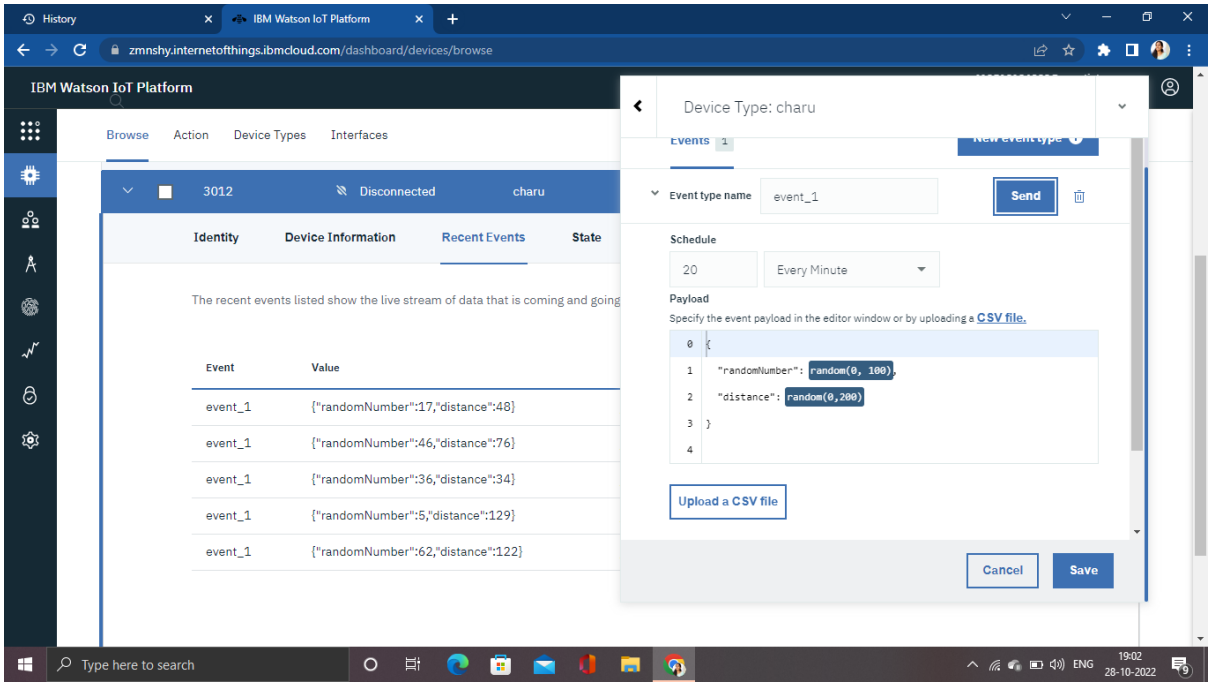
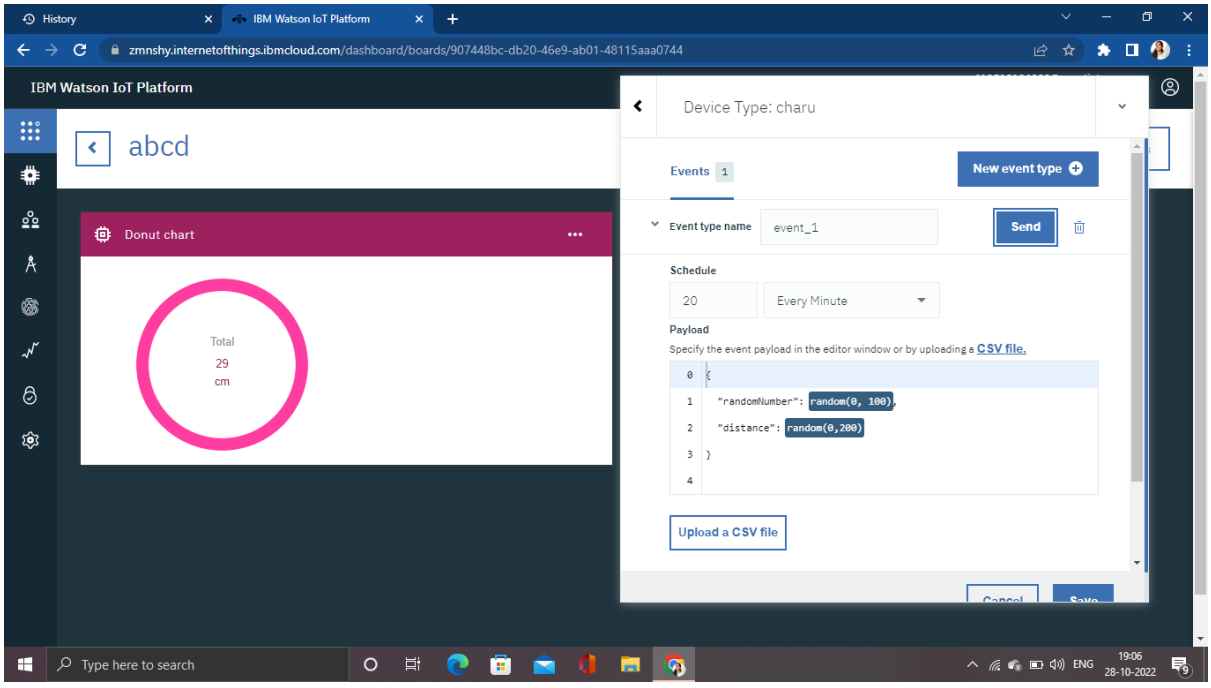
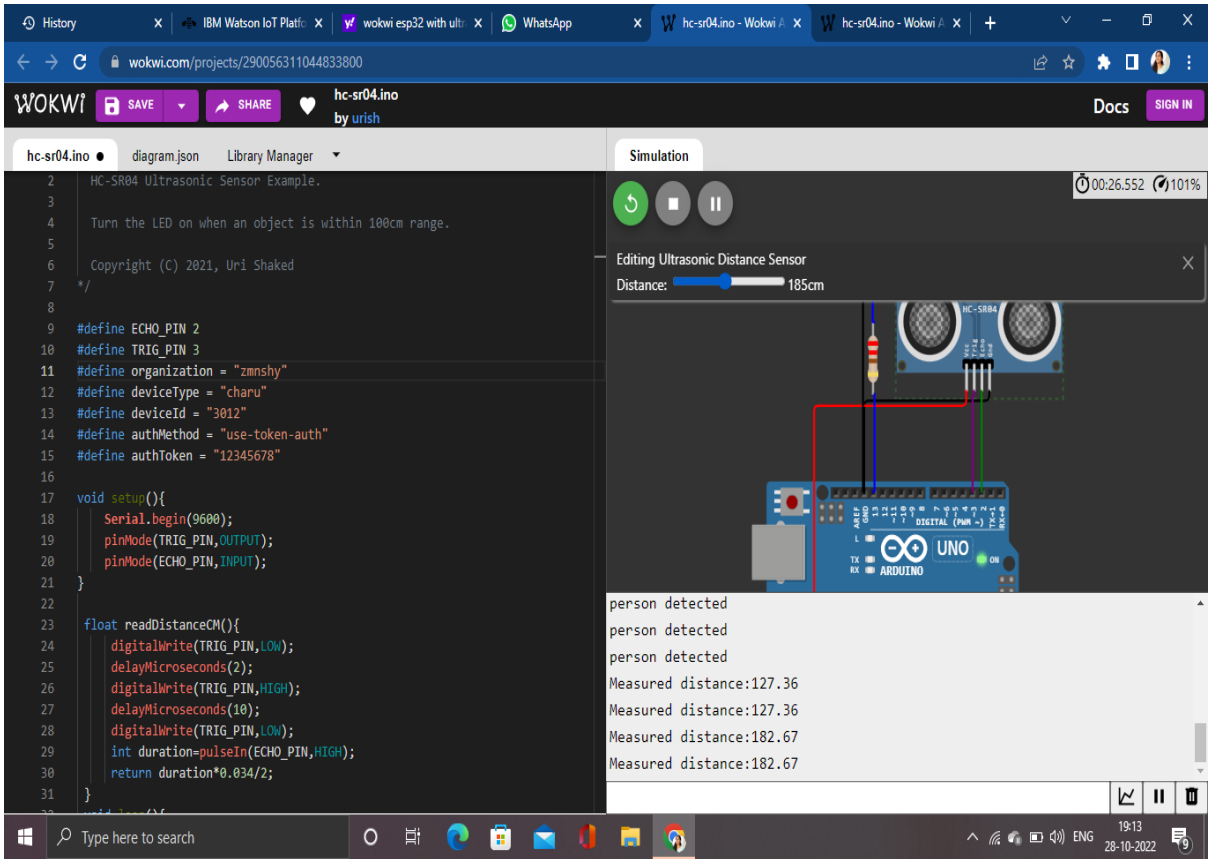
https://wokwi.com/projects/290056311044833800

program:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "zmnshy"
#define deviceType = "charu"
#define deviceId = "3012"
#define authMethod = "use-token-auth"
#define authToken = "12345678"

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);
}
```


History
IBM Watson IoT Platform
zmnshy.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
3012
Disconnected
charu
Identity
Device Information
Recent Events
State
The recent events listed show the live stream of data that is coming and going
Event
Value
event_1
{"randomNumber":17,"distance":48}
event_1
{"randomNumber":46,"distance":76}
event_1
{"randomNumber":36,"distance":34}
event_1
{"randomNumber":5,"distance":129}
event_1
{"randomNumber":62,"distance":122}
Device Type: charu
Events 1
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100),
"distance": random(0,200)
}
Upload a CSV file
Cancel
Save
Type here to search
ENG
19:02
28-10-2022


History
IBM Watson IoT Platform
zmnshy.internetofthings.ibmcloud.com/dashboard/boards/907448bc-db20-46e9-ab01-48115aaa0744
IBM Watson IoT Platform
abcd
Donut chart
Total
29
cm
Device Type: charu
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100),
"distance": random(0,200)
}
Upload a CSV file
Type here to search
ENG
19:06
28-10-2022




```
/*
  HC-SR04 Ultrasonic Sensor Example.

  Turn the LED on when an object is within 100cm range.

  Copyright (C) 2021, Uri Shaked
*/

#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "zmnshy"
#define deviceType = "charu"
#define deviceId = "3012"
#define authMethod = "use-token-auth"
#define authToken = "12345678"

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;
}
```