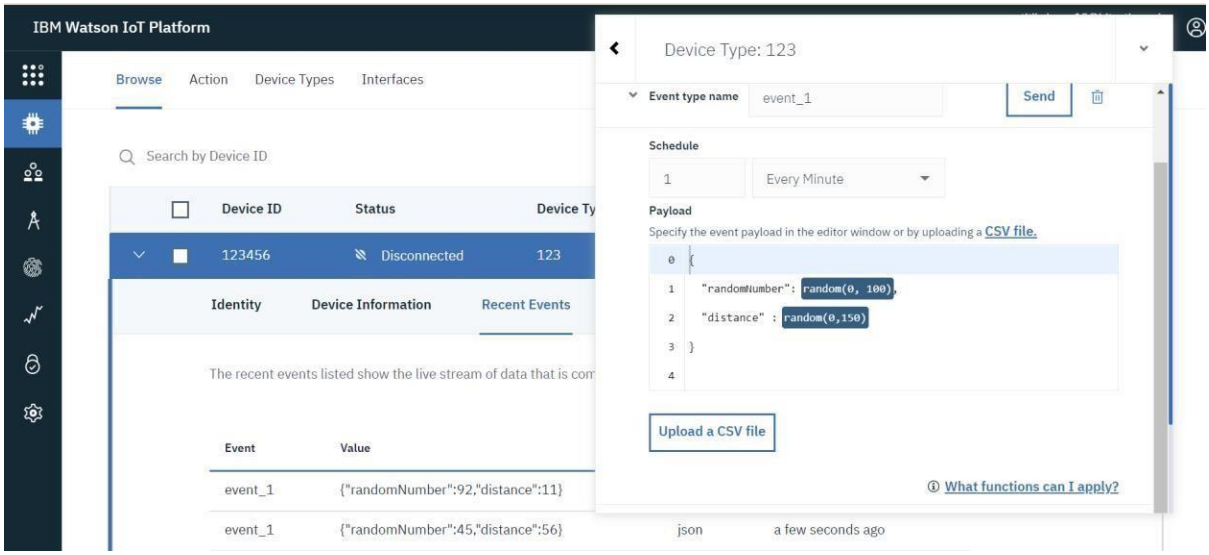
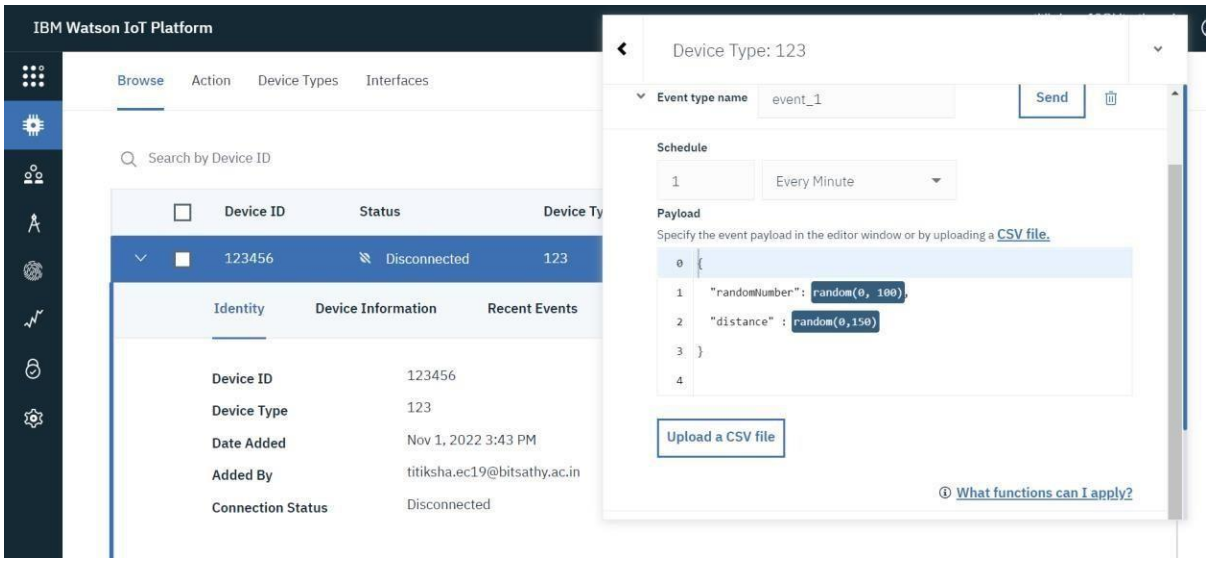
Date	13 NOVEMBER 2022
Team ID	PNT2022TMID14603
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Code:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "md8rdq"
#define deviceType = "123"
#define deviceId = "123456"
#define authMethod = "token"
#define authToken = "Titik@2002"

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);
}
```


IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Search by Device ID
Device ID
Status
123456
Disconnected
123
Identity
Device Information
Recent Events
The recent events listed show the live stream of data that is com
Event
Value
event_1
{"randomNumber":92,"distance":11}
event_1
{"randomNumber":45,"distance":56}
json
a few seconds ago
Device Type: 123
Event type name
event_1
Send
Schedule
1
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100),
"distance" : random(0,150)
}
Upload a CSV file
What functions can I apply?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Browse
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Device ID
Status
123456
Disconnected
123
Identity
Device Information
Recent Events
Device ID
123456
Device Type
123
Date Added
Nov 1, 2022 3:43 PM
Added By
titiksha.ec19@bitsathy.ac.in
Connection Status
Disconnected
Device Type: 123
Event type name
event_1
Send
Schedule
1
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100),
"distance" : random(0,150)
}
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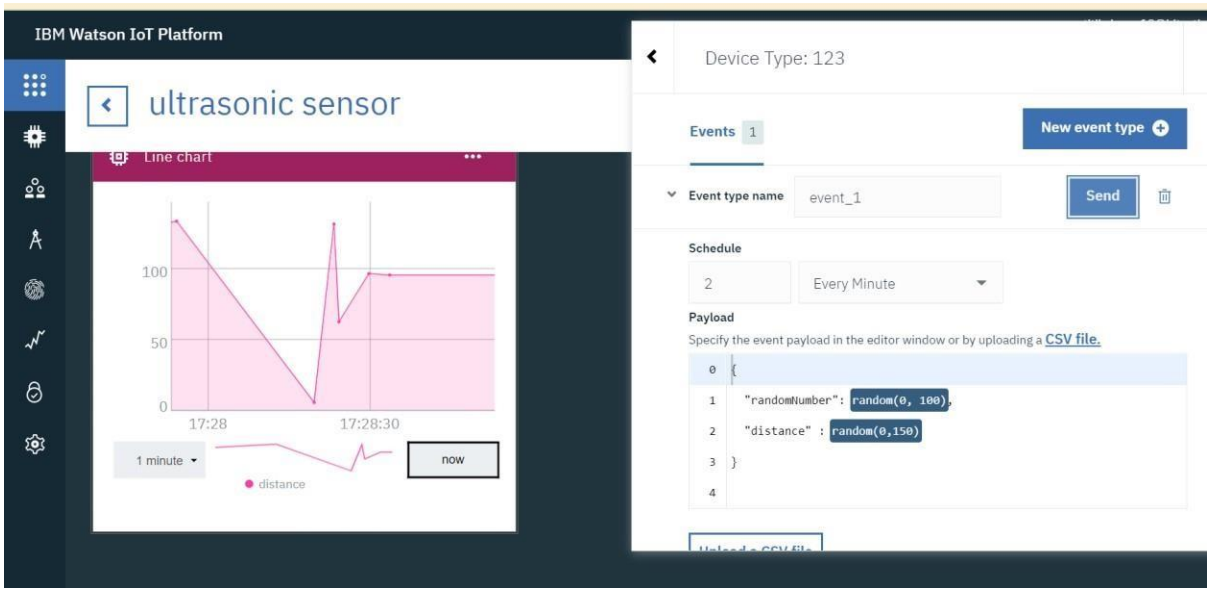
IBM Watson IoT Platform
ultrasonic sensor
Line chart
100
50
0
17:28
17:28:30
1 minute
distance
now
Device Type: 123
Events 1
New event type
Event type name
event_1
Send
Schedule
2
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100),
"distance" : random(0,150)
}