

Develop The Python code

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Team ID	PNT2022TMID15548
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Code:

```
import random
print('Hazardous Gas Level=',str(random.randint(0,100)))
print("Temperature=",str(random.randint(0,100)))
print('Humidity-',str(random.randint(0,100)))
print('Pressure=',str(random.randint(0,100)))
```

Output:

The screenshot displays the IBM Watson IoT Platform web interface. The main page is titled 'Browse Devices' and shows a table of devices. Two devices are listed: '15548' and 'ESP32', both with a status of 'Disconnected'. A modal window is open over the table, titled 'Device Type: 15548_device'. This modal is used to configure a new event type. It includes a section for 'Events' with a dropdown for 'Event type name' set to 'event_1'. Below this is a 'Schedule' section with a dropdown set to 'Every Minute'. The 'Payload' section contains a JSON editor with the following content:

```
{
  "Hazardous gas": random(0, 100),
  "Temperature": random(0, 100),
  "Humidity": random(0, 100),
  "Pressure": random(0, 100)
}
```

The modal also has 'Send', 'Cancel', and 'Save' buttons. The background interface includes a sidebar with navigation icons and a top navigation bar with tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'.

IBM Watson IoT Platform

sb7eg.internetofthings.ibmcloud.com/dashboard/devices/browse

Device ID: 15548, Status: Disconnected, Device Type: 15548_device, Class ID: Device, Date Added: 18 Nov 2022 23:56

Identity | Device Information | Recent Events | State | Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	("Hazardous gas":86,"Temperature":29,"Humidit...	json	a few seconds ago
event_1	("Hazardous gas":95,"Temperature":55,"Humidit...	json	a few seconds ago
event_1	("Hazardous gas":65,"Temperature":50,"Humidit...	json	a few seconds ago
event_1	("Hazardous gas":32,"Temperature":18,"Humidit...	json	a few seconds ago
event_1	("Hazardous gas":27,"Temperature":53,"Humidit...	json	a few seconds ago

1 Simulation running

IBM Watson IoT Platform

sb7eg.internetofthings.ibmcloud.com/dashboard/devices/browse

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Identity | Device Information | Recent Events | State | Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	("Hazardous gas":38,"Temperature":69,"Humidity":75,"Pressure":4)	json	19 Nov 2022 17:05

Event Payload

```
1 {
2   "Hazardous gas": 38,
3   "Temperature": 69,
4   "Humidity": 75,
5   "Pressure": 4
6 }
```

1 Simulation running