

Develop The Python code

Team	Koushik Choudary Bhuma Manamala Mineeth Mannem Srinivasa Teja Mekala Aashik Babu
Team ID	PNT2022TMID14947
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 interface. The main dashboard shows a list of devices, including an ESP32 sensor. A modal window is open for configuring a device type named 'IBM_project'. The 'Events' section is active, showing a list of events. The 'Payload' field is populated with a JSON structure using random values for 'Hazardous Gas', 'Temperature', 'Humidity', and 'Pressure'.

Device Type: IBM_project

Events: 1

Event type name: event_1

Schedule: 20 Every Minute

Payload:

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

IBM Watson IoT Platform

akb4ku.internetofthings.ibmcloud.com/dashboard/devices/browse

uec19229@rmd.ac.in
ID: akb4ku

Browse Action Device Types Interfaces

Add Device

ESP32 Disconnected ESP32_sensor Device 26 Nov 2022 01:09

GAS Disconnected IBM_project Device 26 Nov 2022 22:54

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":23,"Temperature":77,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":12,"Temperature":33,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":10,"Temperature":16,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":48,"Temperature":8,"Humidity...	json	a few seconds ago
event_1	{"Hazardous Gas":75,"Temperature":44,"Humidit...	json	a few seconds ago

1 Simulation running

IBM Watson IoT Platform

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Event Payload

Event Name event_1

Time Received 26 Nov 2022 23:11

```
1 {  
2   "Hazardous Gas": 26,  
3   "Temperature": 44,  
4   "Humidity": 88,  
5   "Pressure": 43  
6 }
```

1 Simulation running