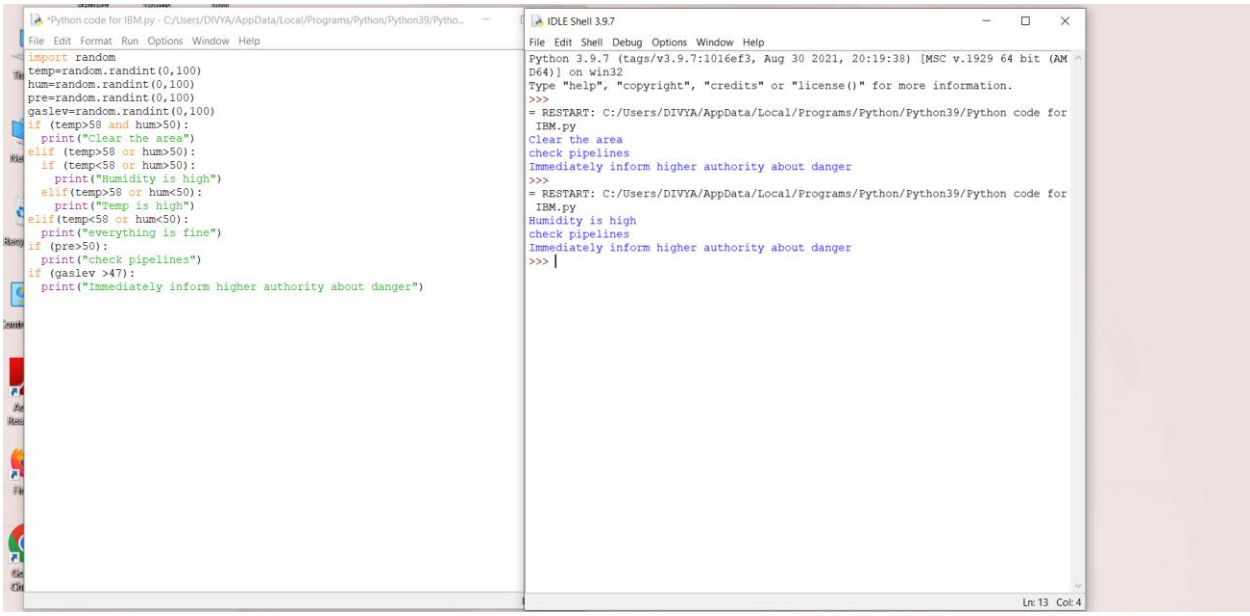
PYTHON CODE:

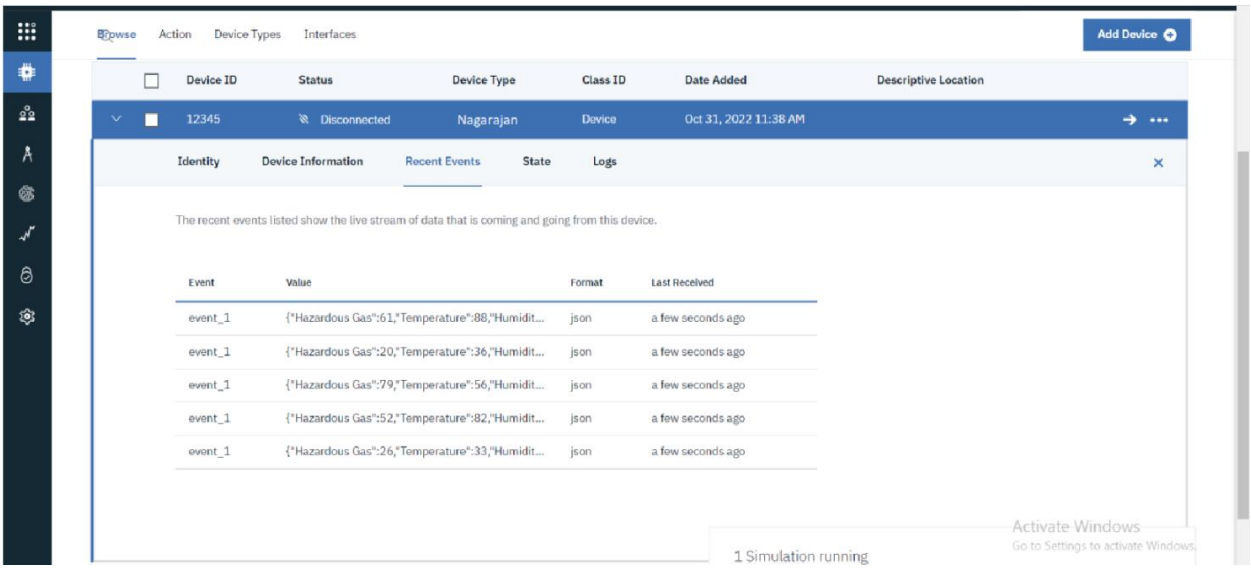
Date	08 November 2022
Team ID	PNT2022TMID14274
Project Name	Project - Gas Leakage monitoring & Alerting system for Industries.

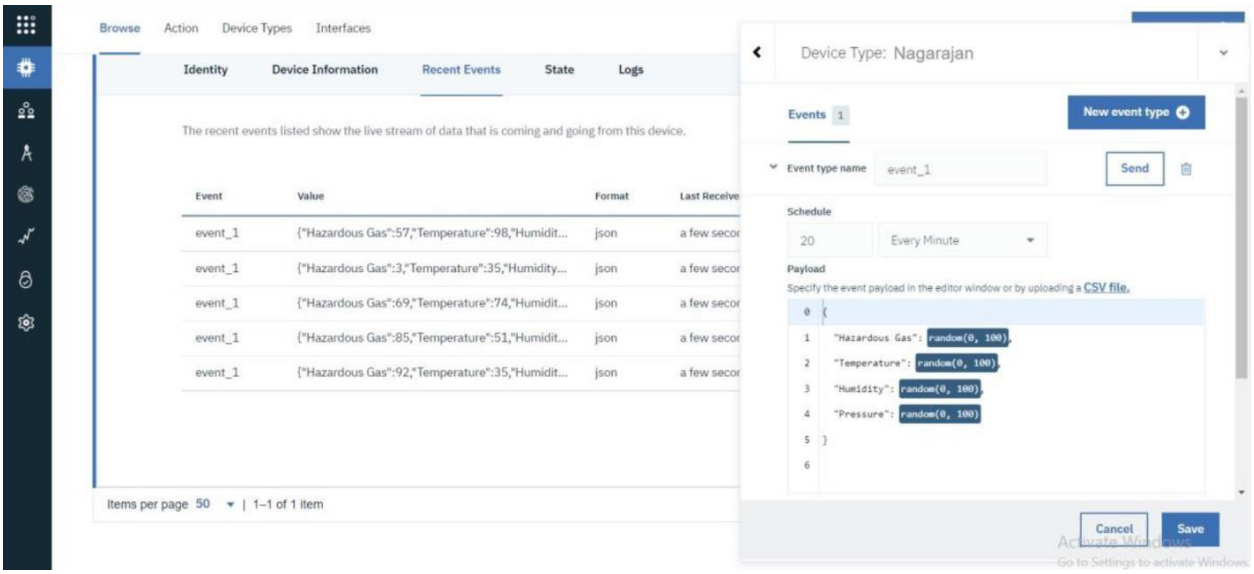
PYTHON CODE

```
import random
temp=random.randint(30,100)
hum=random.randint(30,100)
pre=random.randint(30,100)
gaslev=random.randint(0,100)
if (temp>58 and hum>50):
  print("Clear the area")
elif (temp>58 or hum>50):
  if (temp<58 or hum>50):
    print("Humidity is high")
  elif(temp>58 or hum<50):
    print("Temp is high")
elif(temp<58 or hum<50):
  print("everything is fine")
if (pre>50):
  print("check pipelines")
if (gaslev >47):
  print("Immediately inform higher authority about danger")
```

OUTPUT:


*Python code for IBM.py - C:/Users/DIVYA/AppData/Local/Programs/Python/Python39/Pytho...
File Edit Format Run Options Window Help
import random
temp=random.randint(0,100)
hum=random.randint(0,100)
pre=random.randint(0,100)
gaslev=random.randint(0,100)
if (temp>58 and hum>50):
print("Clear the area")
elif (temp>58 or hum>50):
if (temp<58 or hum>50):
print("Humidity is high")
elif(temp>58 or hum<50):
print("Temp is high")
elif(temp<58 or hum<50):
print("everything is fine")
if (pre>50):
print("check pipelines")
if (gaslev >47):
print("Immediately inform higher authority about danger")
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/DIVYA/AppData/Local/Programs/Python/Python39/Python code for IBM.py
Clear the area
check pipelines
Immediately inform higher authority about danger
>>>
= RESTART: C:/Users/DIVYA/AppData/Local/Programs/Python/Python39/Python code for IBM.py
Humidity is high
check pipelines
Immediately inform higher authority about danger
>>>
Ln: 13 Col: 4


Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
12345
Disconnected
Nagarajan
Device
Oct 31, 2022 11:38 AM
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":61,"Temperature":88,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":20,"Temperature":36,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":79,"Temperature":56,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":52,"Temperature":82,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":26,"Temperature":33,"Humidit...
json
a few seconds ago
1 Simulation running
Activate Windows
Go to Settings to activate Windows.


Browse
Action
Device Types
Interfaces
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 Receive
event_1
{"Hazardous Gas":57,"Temperature":98,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":3,"Temperature":35,"Humidity...
json
a few secor
event_1
{"Hazardous Gas":69,"Temperature":74,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":85,"Temperature":51,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":92,"Temperature":35,"Humidit...
json
a few secor
Items per page 50
1–1 of 1 item
Device Type: Nagarajan
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.
{
"Hazardous Gas": random(0, 100),
"Temperature": random(0, 100),
"Humidity": random(0, 100),
"Pressure": random(0, 100)
}
Cancel
Save
Activate Windows
Go to Settings to activate Windows.