

PYTHON CODE (GAS LEVEL, TEMPERATURE, HUMIDITY, PRESSURE)

Date	14 NOVEMBER 2022
Team ID	PNT2022TMID04616
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE:

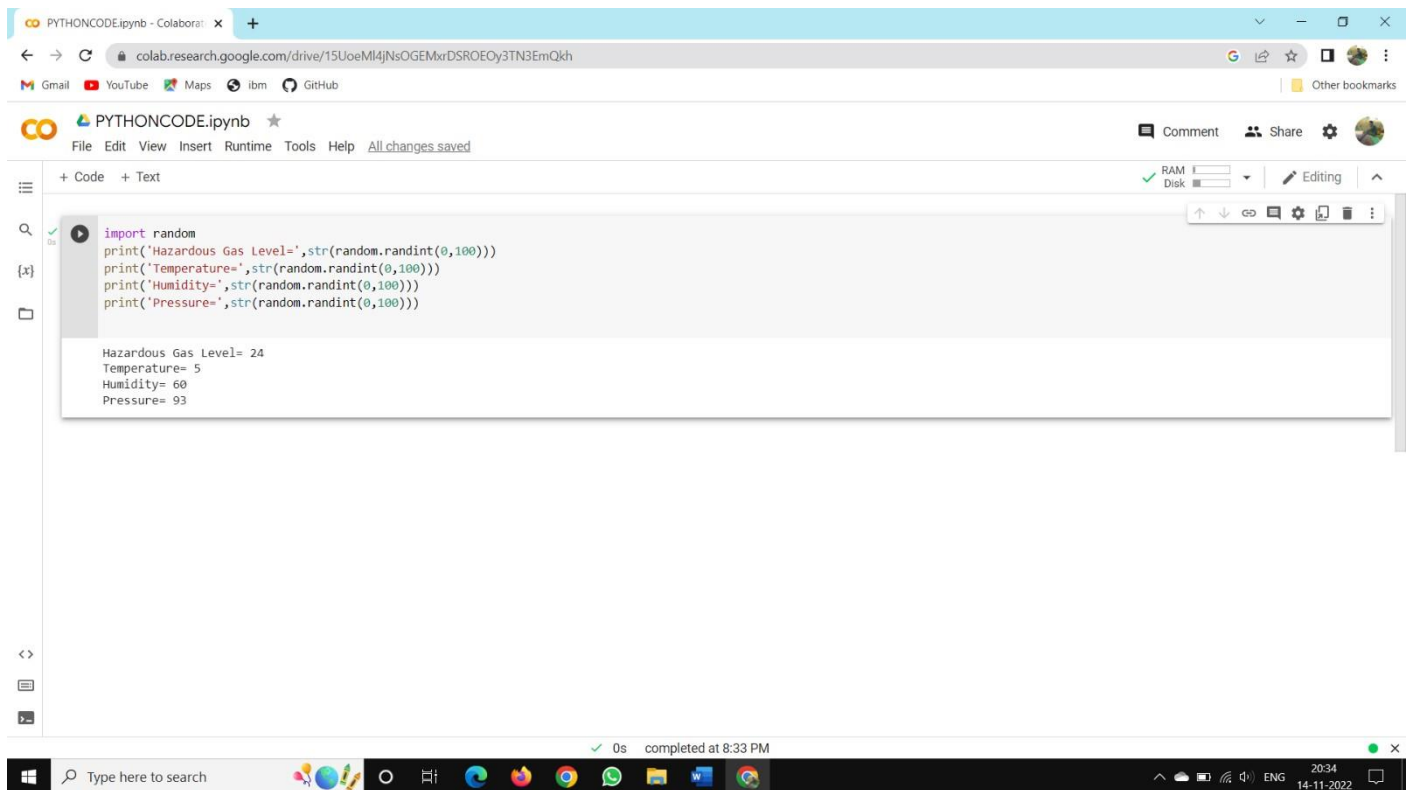
```
import random

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)))
```



The screenshot shows a Google Colab notebook titled 'PYTHONCODE.ipynb'. The code cell contains the following Python 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)))
```

The output of the code is displayed below the code cell:

```
Hazardous Gas Level= 24
Temperature= 5
Humidity= 60
Pressure= 93
```

The notebook interface includes a menu bar with options like File, Edit, View, Insert, Runtime, Tools, and Help. The status bar at the bottom indicates '0s completed at 8:33 PM'.

OUTPUT :

The screenshot shows the IBM Watson IoT Platform interface. The main window displays the 'Recent Events' tab for a device. A modal window titled 'Device Type: PYTHONCODE' is open, showing the configuration for a new event type named 'event_1'. The event is scheduled to occur every minute with a payload of random values for Hazardous gas level, Temperature, Humidity, and Pressure.

Device Type: PYTHONCODE

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.

```
0 {
1   "Hazardous gas level": random(0,100),
2   "Temperature": random(0,100),
3   "Humidity": random(0,100),
4   "Pressure": random(0,100),
5
6 }
7
```

Cancel Save

The screenshot shows the IBM Watson IoT Platform interface. The main window displays the 'Recent Events' tab for a device. A modal window titled 'Simulations' is open, showing the configuration for a new simulation. The simulation is for a device of type 'PYTHONCODE' and is currently running. The window also shows a list of devices and their status.

Simulations Import/Export simulation

2/50 Simulations Running + New Simulation

Device Type PYTHONCODE 1 Event

1 Device

9843

1 x Create Simulated Device Use Registered Device

Device Type Sampledevice 1 Event

1 Device

8778

1 x Create Simulated Device Use Registered Device

89 events sent 3.2 KB sent

OUTPUT:

