

PYTHON CODE (WATER,TEMPERATURE,HUMIDITY,PRESSURE)

| | |
|--------------|---|
| Date | 3 NOVEMBER 2022 |
| Team ID | PNT2022TMID00516 |
| Project Name | REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |

PYTHON CODE:

```
import random

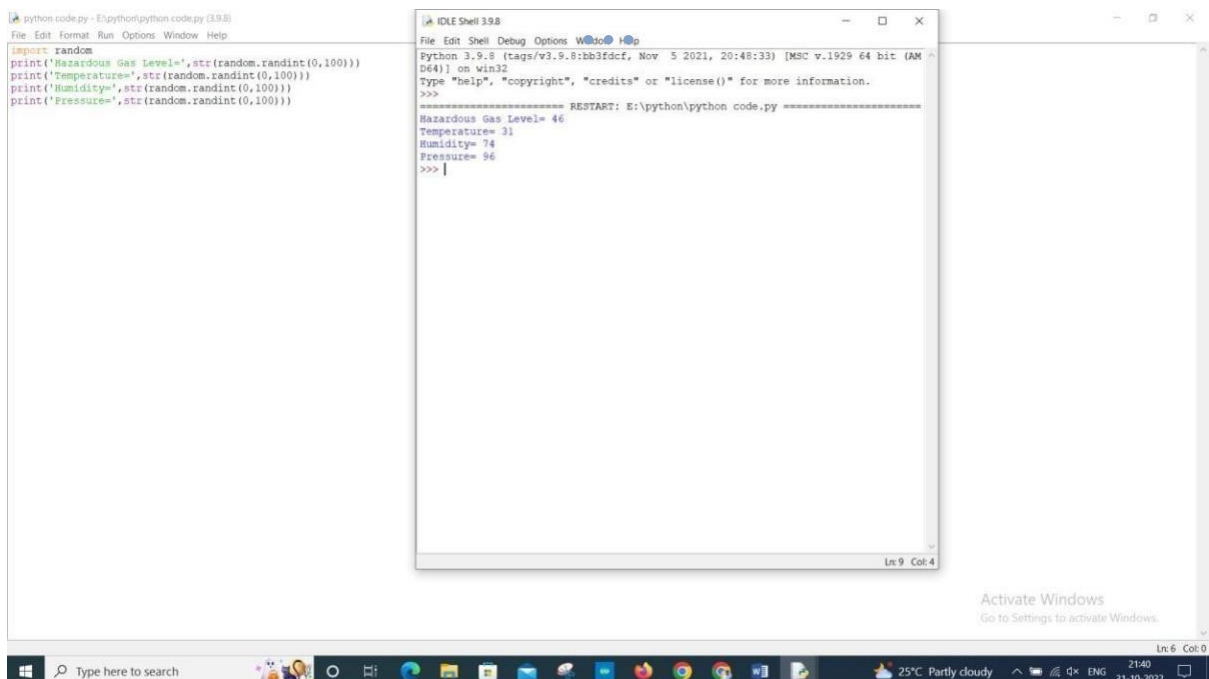
print('Hazardous Water Level=',str(random.randint(0,100)))

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 a Windows desktop environment. On the left, a code editor window titled 'python code.py - E:\python\python code.py (3.9.8)' shows 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)))
```

On the right, a command prompt window titled 'IDLE Shell 3.9.8' shows the output of the script:

```
Python 3.9.8 (tags/v3.9.8:bb3fddf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\python\python code.py =====
Hazardous Gas Level= 46
Temperature= 31
Humidity= 74
Pressure= 96
>>> |
```

The Windows taskbar at the bottom shows the system clock as 21:40 on 31-10-2022, with weather information indicating 25°C and 'Partly cloudy'.

IBM Watson IoT Platform

ID: zursax

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.

IBM Watson IoT Platform

ID: zursax

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 Received |
|---------|--|--------|-------------------|
| event_1 | {"Hazardous Gas":57,"Temperature":98,"Humidit... | json | a few seconds ago |
| event_1 | {"Hazardous Gas":3,"Temperature":35,"Humidity... | json | a few seconds ago |
| event_1 | {"Hazardous Gas":69,"Temperature":74,"Humidit... | json | a few seconds ago |
| event_1 | {"Hazardous Gas":85,"Temperature":51,"Humidit... | json | a few seconds ago |
| event_1 | {"Hazardous Gas":92,"Temperature":35,"Humidit... | json | a few seconds ago |

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.

0 {

1 "Hazardous Gas": random(0, 100),

2 "Temperature": random(0, 100),

3 "Humidity": random(0, 100),

4 "Pressure": random(0, 100)

5 }

6

Cancel

Save

Activate Windows

Go to Settings to activate Windows.