

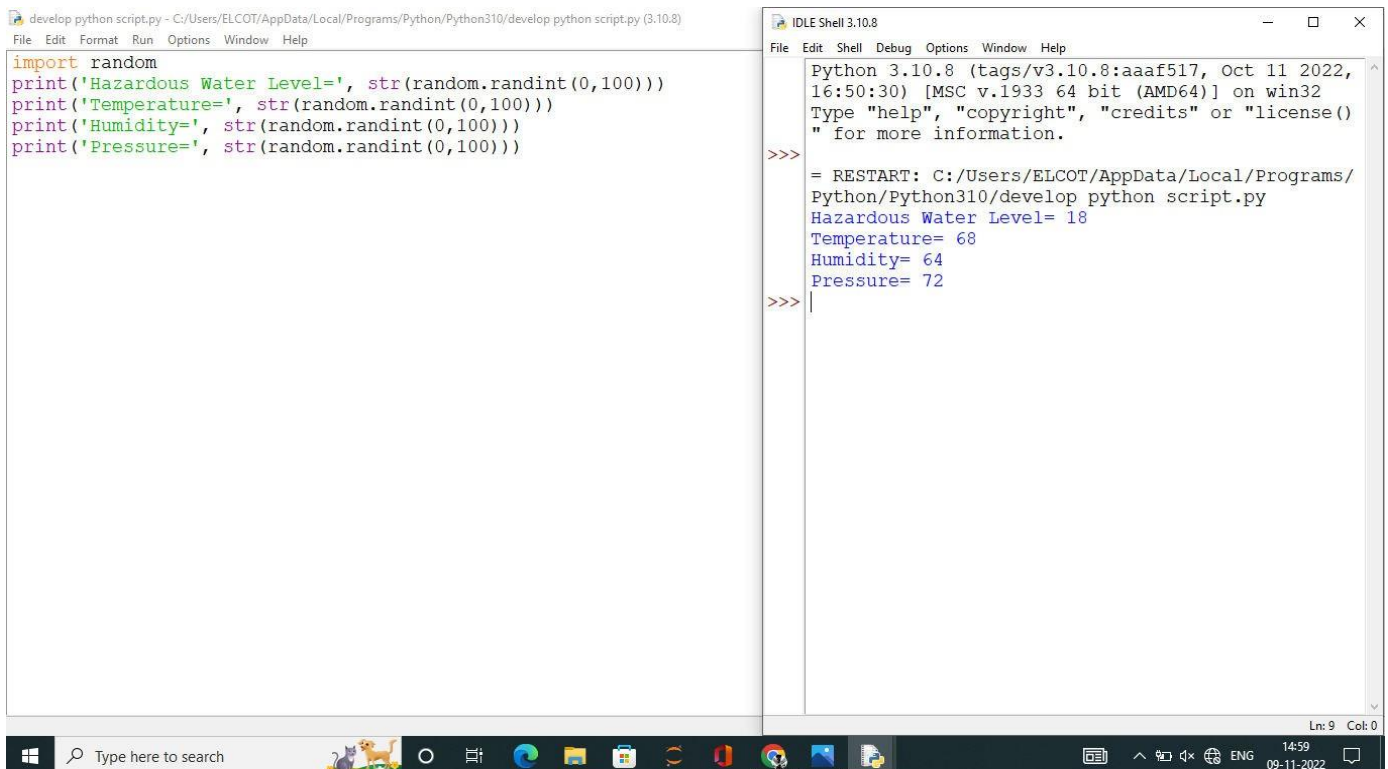
PYTHON CODE (WATER TEMPERATURE,HUMIDITY,PRESSURE)

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID26485
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 image shows a screenshot of a Windows desktop with two windows open. The left window is a text editor titled 'develop python script.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/develop python script.py (3.10.8)'. It contains the following 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)))
```

The right window is the 'IDLE Shell 3.10.8' window. It shows the Python 3.10.8 shell environment. The output of the script is displayed as follows:

```
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022,  
16:50:30) [MSC v.1933 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()  
" for more information.  
  
>>> = RESTART: C:/Users/ELCOT/AppData/Local/Programs/  
Python/Python310/develop python script.py  
Hazardous Water Level= 18  
Temperature= 68  
Humidity= 64  
Pressure= 72  
>>>
```

The Windows taskbar at the bottom shows the date and time as 14:59 on 09-11-2022.

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Browse Action Device Types Interfaces

Device Type: new

123435 Disconnected new Device Nov 8, 2022 12:0

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 Water level":27,"Temperature":32,"...	json	a few seconds ago
event_1	{"Hazardous Water level":56,"Temperature":65,"...	json	a few seconds ago
event_1	{"Hazardous Water level":74,"Temperature":53,"...	json	a few seconds ago
event_1	{"Hazardous Water level":55,"Temperature":53,"...	json	a few seconds ago
event_1	{"Hazardous Water level":96,"Temperature":5,"H..."	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

Device Type: new

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 Water level": random(0, 100)
2   "Temperature": random(0, 100)
3   "Humidity": random(0, 100)
4   "Pressure 11": random(0, 100)
5 }
6

```

Cancel Save

Windows Taskbar: 3:32 PM 11/9/2022

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Browse Action Device Types Interfaces

Device ID Status Device Type Class ID Date Added Descriptive Location

123435 Disconnected new Device Nov 8, 2022 12:08 PM

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
data	{"Turbidity":203,"pH_value":8}	json	a few seconds ago
data	{"Turbidity":597,"pH_value":12}	json	a few seconds ago
data	{"Turbidity":110,"pH_value":10}	json	a few seconds ago
data	{"Turbidity":608,"pH_value":9}	json	a few seconds ago
data	{"Turbidity":393,"pH_value":10}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

1 Simulation running

Windows Taskbar: 3:46 PM 11/9/2022