

Assignment Date	24 September 2022
Student Name	Sanjay krushnan R C
Student Roll Number	2019504577
Maximum Marks	2 Marks

## ASSIGNMENT-2

### PYTHON PROGRAMMING

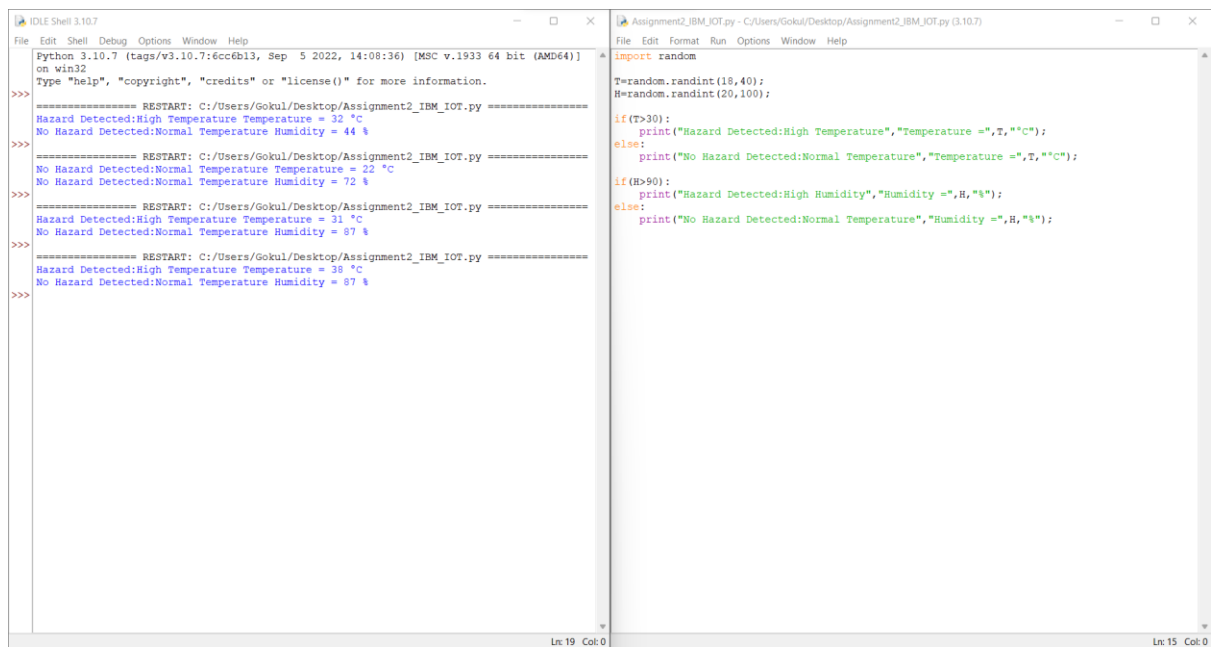
**Source code:**

```
import random
T=random.randint(18,40);
H=random.randint(20,100);

if(T>30):
    print("Hazard Detected:High Temperature","Temperature =",T,"°C");
else:
    print("No Hazard Detected:Normal Temperature","Temperature =",T,"°C");

if(H>90):
    print("Hazard Detected:High Humidity","Humidity =",H,"%");
else:
    print("No Hazard Detected:Normal Temperature","Humidity =",H,"%");
```

## RESULT:



The image shows two side-by-side windows from a Python IDE (IDLE 3.10.7). The left window displays the output of a Python script, showing three restarts of a simulation. Each restart generates random temperature and humidity values and prints a hazard status based on thresholds. The right window shows the source code of the script, which uses the random module to generate values and conditional logic to determine if a hazard is detected.

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/Gokul/Desktop/Assignment2_IBM_IOT.py =====
Hazard Detected:High Temperature Temperature = 32 °C
No Hazard Detected:Normal Temperature Humidity = 44 %
>>> ===== RESTART: C:/Users/Gokul/Desktop/Assignment2_IBM_IOT.py =====
No Hazard Detected:Normal Temperature Temperature = 22 °C
No Hazard Detected:Normal Temperature Humidity = 72 %
>>> ===== RESTART: C:/Users/Gokul/Desktop/Assignment2_IBM_IOT.py =====
Hazard Detected:High Temperature Temperature = 31 °C
No Hazard Detected:Normal Temperature Humidity = 87 %
>>> ===== RESTART: C:/Users/Gokul/Desktop/Assignment2_IBM_IOT.py =====
Hazard Detected:High Temperature Temperature = 38 °C
No Hazard Detected:Normal Temperature Humidity = 87 %
>>>
```

```
Assignment2_IBM_IOT.py - C:/Users/Gokul/Desktop/Assignment2_IBM_IOT.py (3.10.7)
File Edit Format Run Options Window Help
import random

T=random.randint(18,40);
H=random.randint(20,100);

if (T>30):
    print("Hazard Detected:High Temperature","Temperature =",T,"°C");
else:
    print("No Hazard Detected:Normal Temperature","Temperature =",T,"°C");

if (H>90):
    print("Hazard Detected:High Humidity","Humidity =",H,"%");
else:
    print("No Hazard Detected:Normal Temperature","Humidity =",H,"%");
```

Ln: 19 Col: 0

Ln: 15 Col: 0