

## **ASSIGNMENT-2**

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**Question:**

**Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature**

### **PROGRAM**

```
Import random  
While(True):  
    temp=random.randint(10,99)  
    humid=random.randint(10,99)  
    print("current temperature : ", temp)  
    print("current humidity : ", humid,"%")  
    temp_ref=60  
    humid_ref=37  
    if temp>temp_ref and humid<humid_ref:  
        print("sound alarm")  
    else :  
        print("sound off")  
    break
```

**Schematic Output:**

The screenshot shows a dual-pane interface for a Python development environment. The left pane is a code editor titled "Temp and Humidity.py - C:/Users/kgbar/Temp and Humidity.py (3.8.10)". It contains the following Python code:

```
File Edit Format Run Options Window Help
import random

while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid, "%")
    temp_ref=60
    humid_ref=37
    if temp>temp_ref and humid<humid_ref:
        print("Sound alarm")
    else:
        print("Sound off")
    break
```

The right pane is an "IDLE Shell 3.8.10" window. It displays the output of running the script, showing current temperature and humidity values, and a sound status message.

```
File Edit Shell Debug Options Window Help
Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/kgbar/Temp and Humidity.py =====
current temperature: 43
current humidity: 67 %
Sound off
>>> |
```