

ASSIGNMENT-2

Assignment Date	27-September-2022
Student Name	Mr. MANAMALA MINEETH
Student Roll Number	111519106082
Maximum Marks	2 Marks

Question-1:

Build a python code, assume you 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.

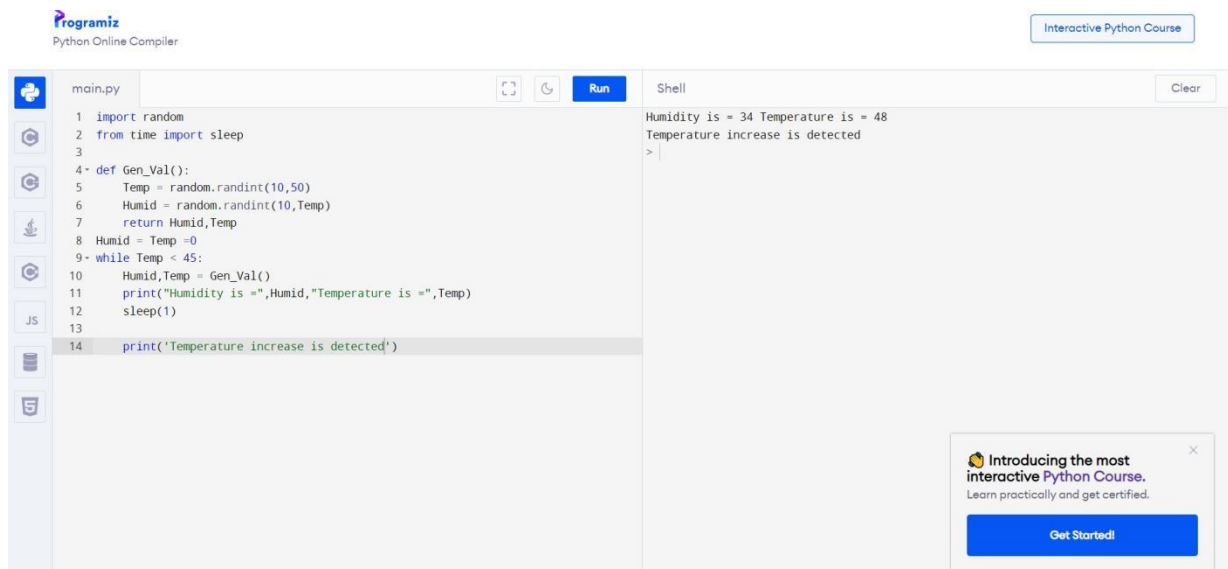
CODE:

```
import random
from time import sleep

def Gen_Val():
    Temp = random.randint(10,50)
    Humid = random.randint(10,Temp)
    return Humid,Temp
Humid = Temp =0
while Temp < 45:
    Humid,Temp = Gen_Val()
    print("Humidity is =",Humid,"Temperature is =",Temp)
    sleep(1)
```

```
print('Temperature increase is detected')
```

SCREEN SHOT:



The screenshot displays the Programiz Python Online Compiler interface. The top left features the Programiz logo and the text "Python Online Compiler". The top right has a button labeled "Interactive Python Course". The main area is divided into two panels. The left panel, titled "main.py", contains a Python script with 14 lines of code. The right panel, titled "Shell", shows the output of the script. The script defines a function `Gen_Val()` that generates random humidity and temperature values. It then enters a `while` loop that runs as long as the temperature is below 45, printing the current humidity and temperature values and sleeping for 1 second. Finally, it prints a message when the temperature increases.

```
1 import random
2 from time import sleep
3
4 def Gen_Val():
5     Temp = random.randint(10,50)
6     Humid = random.randint(10,Temp)
7     return Humid,Temp
8 Humid = Temp =0
9 while Temp < 45:
10     Humid,Temp = Gen_Val()
11     print("Humidity is =",Humid,"Temperature is =",Temp)
12     sleep(1)
13
14 print('Temperature increase is detected')
```

The Shell output shows the following text:

```
Humidity is = 34 Temperature is = 48
Temperature increase is detected
> |
```

In the bottom right corner, there is a promotional banner for the "Interactive Python Course" with a "Get Started!" button.