

ASSIGNMENT 2

Q: Python program to get temperature and humidity values with random function variable and write condition to continuously detect alarm in case of high temperature.

Code:

```
import random
while (True) :
    t=random.randint(0,100)
    h=random.randint(0,100)
    print("Temperature=",t)
    print("Humidity=",h)
    if (t>90 and h>60) :
        print("Alarm is detected")
    elif (t<90 and h<60) :
        print("Alarm is not detected")
```

Output:

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:/Users/Vijajaraj/OneDrive/Desktop/Assignment 2.py =====
Temperature= 61
Humidity= 50
Alarm is not detected
Temperature= 45
Humidity= 62
Temperature= 15
Humidity= 29
Alarm is not detected
Temperature= 87
Humidity= 93
Temperature= 74
Humidity= 79
Temperature= 55
Humidity= 54
Alarm is not detected
Temperature= 93
Humidity= 68
Alarm is detected
Temperature= 57
Humidity= 17
Alarm is not detected
Temperature= 24
Humidity= 83
Temperature= 55
Humidity= 100
Temperature= 34
Humidity= 2
Alarm is not detected
Temperature= 13
Humidity= 69
Temperature= 51
Humidity= 19
Alarm is not detected
Temperature= 99
Humidity= 6
Temperature= 96
Humidity= 20
Temperature= 56
Humidity= 61
Temperature= 23
Humidity= 57
Alarm is not detected
Temperature= 73
Humidity= 90
Temperature= 2
Humidity= 8
Alarm is not detected
Temperature= 93
Humidity= 62
```