ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	27 September 2022
Student Name	Aathira S
Student Roll Number	960219106001
Maximum Marks	2 Marks

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.

Solution :

```python
import random

while(True):

    a=random.randint(10,99)

    b=random.randint(10,99)

    if(a>35 and b>60):

        print("High temperature and humidity of:",a,b,"%","alarm is on")

    elif(a<35 and b<60):

        print("Normal temperature and humidity of:",a,b,"%","alarm is off")

        break
```

OUTPUT :

```
Python 3.7.0 Shell

File  Edit  Shell  Debug  Options  Window  Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
high temperature and humidity of: 58 68 % alarm is on
high temperature and humidity of: 76 90 % alarm is on
high temperature and humidity of: 86 70 % alarm is on
Normal temperature and humidity of: 17 38 % alarm is off
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
Normal temperature and humidity of: 34 58 % alarm is off
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
high temperature and humidity of: 63 70 % alarm is on
Normal temperature and humidity of: 14 21 % alarm is off
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
Normal temperature and humidity of: 13 50 % alarm is off
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
Normal temperature and humidity of: 24 14 % alarm is off
>>>
============== RESTART: C:/Users/SmilE/Desktop/Assignment 2.py ==============
high temperature and humidity of: 98 73 % alarm is on
high temperature and humidity of: 63 81 % alarm is on
high temperature and humidity of: 43 84 % alarm is on
high temperature and humidity of: 43 72 % alarm is on
Normal temperature and humidity of: 23 36 % alarm is off
>>>
```