Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	Miss. Brindha M
Student Roll Number	923819106008
Maximum Marks	2 Marks

Question-1:

Build a python code, assume u get a 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:

```
Import random

Import time

While True:

    Temperature=random.randint(0,150)

    Humidity=random.randint(0,100)

    If Temperature>100 and Humidity>80:

        print("Temperature:"+str(Temperature))

        print("Humidity:"+str(Humidity))

        print("Alarm On!!")

        print(" ")

        time.sleep(2)

    else:

        print("Temperature:"+str(Temperature))

        print("Humidity:"+str(Humidity))

        print("Range is Normal")

        print(" ")
```

```python
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
        print("Alarm On !!!")
        print(" ")
        time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Range is Normal")
        print(" ")
```

```
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\ELCOT\Desktop\Assignment 2.py ===============
Temperature : 66
Humidity : 95
Range is Normal

Temperature : 100
Humidity : 52
Range is Normal

Temperature : 64
Humidity : 1
Range is Normal

Temperature : 103
Humidity : 77
Range is Normal

Temperature : 9
Humidity : 46
Range is Normal

Temperature : 88
Humidity : 17
Range is Normal

Temperature : 127
Humidity : 82
Temperature and Humidity is High
Alarm On !!!

```

```
Range is Normal

Temperature : 80
Humidity : 83
Range is Normal

Temperature : 125
Humidity : 30
Range is Normal

Temperature : 139
Humidity : 7
Range is Normal

Temperature : 2
Humidity : 18
Range is Normal

Temperature : 24
Humidity : 29
Range is Normal

Temperature : 18
Humidity : 88
Range is Normal

Temperature : 143
Humidity : 39
Range is Normal

Temperature : 14
Humidity : 63
Range is Normal

Temperature : 111
Humidity : 96
Temperature and Humidity is High
Alarm On !!!
```