ASSIGNMENT – 2

Assignment Date	25 September 2022
Student Name	Sanjai R
Student Roll Number	721219106046
Maximum Marks	2 Marks

Question: Build a python code, Assume you get temperature and humidity values (generated withrandom function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
CODE
```

```
import time
import random
while (True):
     time.sleep(3)
     temperature=random.randint(0,60)
     humidity=random.randint(1,100)
     if temperature<=15:
         print(temperature, "Temperature is low")
     elif temperature<=45:</pre>
         print(temperature, "Temperature is Normal")
     else:
         print(temperature,"ALERT, Temperature is High")
     if humidity<=30:
         print(humidity,"ALERT, Humidity is Low")
     elif humidity<=70:</pre>
         print(humidity,"Humidity is Normal")
     else:
         print(humidity,"Humidity is High")
```

OUTPUT

```
▶ Temperature.py - C\Users\dhanu\Desktop\Temperature.py (3.10.1)
                                                 *IDLE Shell 3.10.1*
                                                        File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 202
import time
                                                            1, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win
import random
                                                            32
                                                            Type "help", "copyright", "credits" or "license
while (True):
                                                            ()" for more information.
    time.sleep(3)
                                                            p\Temperature.py ==========
    temperature=random.randint(0,60)
                                                            10 Temperature is low
                                                            2 ALERT, Humidity is Low
    humidity=random.randint(1,100)
                                                            44 Temperature is Normal
                                                            43 Temperature is Normal
    if temperature<=15:</pre>
                                                            5 Temperature is low
                                                            27 Temperature is Normal
        print(temperature, "Temperature is low")
                                                            12 ALERT, Humidity is Low
                                                            25 Temperature is Normal
    elif temperature<=45:</pre>
                                                            15 Temperature is low
                                                            38 Temperature is Normal
        print(temperature, "Temperature is Normal")
                                                            16 Temperature is Normal
                                                            21 Temperature is Normal
    else:
                                                            O Temperature is low
                                                            6 ALERT, Humidity is Low
        print(temperature, "ALERT, Temperature is High
                                                            25 Temperature is Normal
                                                            51 ALERT, Temperature is High
    if humidity<=30:
                                                            3 ALERT, Humidity is Low
                                                            27 Temperature is Normal
        print(humidity,"ALERT, Humidity is Low")
                                                            22 ALERT, Humidity is Low
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