Assignment – 2

PYTHON PROGRAM

Assignment Date	29 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code assume u get temperature and humidity value (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

SOLUTION :

PYTHON PROGRAM :

```
import  random
from  time  import  sleep

def  generate_values():
    temperature  =  random.randint(20,  40)
    humidity  =  random.randint(10,  temperature)
    return  humidity,  temperature

humidity  =  temperature  =  0

while  temperature  <  30:
    humidity,  temperature  =  generate_values()
    print('Humidity:',  humidity,  'Temperature:',  temperature)
    sleep(0.40)

print('High  Temperature  Detected')
```

OUTPUT :

```
Humidity: 29 Temperature: 40
```

High Temperature Detected
>>>
================== RESTART: C:/Users/ELCOT/OneDrive/Pictures/sss.py
==================
Humidity: 11 Temperature: 25
Humidity: 16 Temperature: 38
High Temperature Detected
>>>
================== RESTART: C:/Users/ELCOT/OneDrive/Pictures/sss.py
==================
Humidity: 30 Temperature: 35
High Temperature Detected
>>>

```
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/ELCOT/OneDrive/Pictures/SSS.PY ==============
Humidity: 29 Temperature: 40
High Temperature Detected
>>>
============== RESTART: C:/Users/ELCOT/OneDrive/Pictures/SSS.PY ==============
Humidity: 11 Temperature: 25
Humidity: 16 Temperature: 38
High Temperature Detected
>>>
============== RESTART: C:/Users/ELCOT/OneDrive/Pictures/SSS.PY ==============
Humidity: 30 Temperature: 35
High Temperature Detected
>>>
============== RESTART: C:/Users/ELCOT/OneDrive/Pictures/SSS.PY ==============
Humidity: 11 Temperature: 28
Humidity: 11 Temperature: 22
Humidity: 25 Temperature: 35
High Temperature Detected
>>>
```