

Assignment – 2

PYTHON PROGRAM

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| Assignment Date | 29 September 2022 |
| Student Name | E.BHAVIA |
| Student Roll Number | E1194012/812419106012 |
| 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 (tags/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
>>>
```

