

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 = generate_values()

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/v3.7.0:2b5000000, Jun 27 2019, 04:59:51) [AMD64] on win32
Type "copyright", "credits" or "help()" to see more information.
>>>
===== 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
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: 25
Humidity: 11 Temperature: 25
Humidity: 25 Temperature: 35
High Temperature Detected
>>>
```