Assignment – 2

PYTHON PROGRAM

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
>>>
```