

Assignment -1
Python Programming

Assignment Date	19 September 2022
Student Name	S. Arul Jothika
Student Roll Number	812419106007
Maximum Marks	2 Marks

Question-1:

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

PROGRAM:

```
import random
from time import sleep
def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature
humidity = temperature = 0
while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)
print('High Temperature Detected')
```

OUTPUT:

```
Humidity: 12 Temperature: 24
Humidity: 25 Temperature: 28
Humidity: 26 Temperature: 46
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/Arul Jothika/AppData/Local/Programs/Python/Python37/python3.py
Humidity: 12 Temperature: 24
Humidity: 25 Temperature: 28
Humidity: 26 Temperature: 46
High Temperature Detected
>>>
```

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84°F
Partly cloudy

9:43 PM
9/29/2022