

Program:

```
import random
from time import sleep

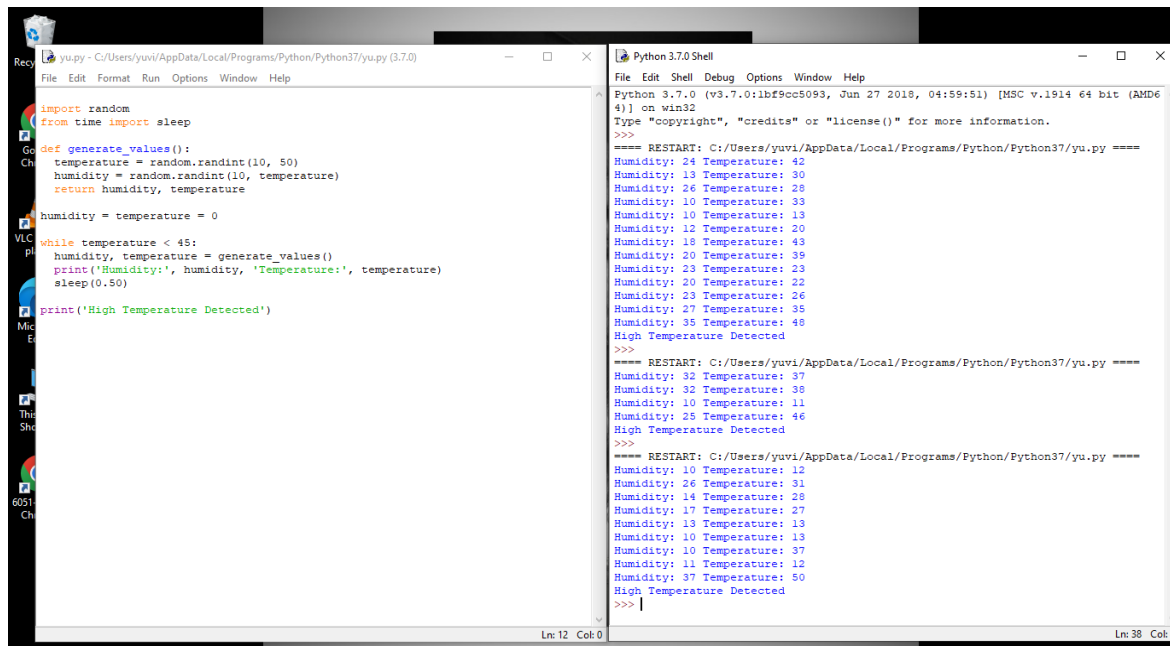
def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature

humidity = temperature = 0

while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)

print('High Temperature Detected')
```

output:



The screenshot displays a Windows desktop environment. On the left, a file explorer window shows the path `C:/Users/yuvi/AppData/Local/Programs/Python/Python37/yu.py`. The main window is a Python 3.7.0 Shell, which has executed the script. The output shows a series of humidity and temperature readings, with the temperature increasing over time until it reaches 46, at which point the message "High Temperature Detected" is printed. The shell window also shows the restart command and the output of the script being run again.

```
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/yuvi/AppData/Local/Programs/Python/Python37/yu.py ====
Humidity: 24 Temperature: 42
Humidity: 13 Temperature: 30
Humidity: 26 Temperature: 28
Humidity: 10 Temperature: 33
Humidity: 10 Temperature: 13
Humidity: 12 Temperature: 20
Humidity: 18 Temperature: 43
Humidity: 20 Temperature: 39
Humidity: 23 Temperature: 23
Humidity: 20 Temperature: 22
Humidity: 23 Temperature: 26
Humidity: 27 Temperature: 35
Humidity: 35 Temperature: 48
High Temperature Detected
>>>
==== RESTART: C:/Users/yuvi/AppData/Local/Programs/Python/Python37/yu.py ====
Humidity: 32 Temperature: 37
Humidity: 32 Temperature: 38
Humidity: 10 Temperature: 11
Humidity: 25 Temperature: 46
High Temperature Detected
>>>
==== RESTART: C:/Users/yuvi/AppData/Local/Programs/Python/Python37/yu.py ====
Humidity: 10 Temperature: 12
Humidity: 26 Temperature: 31
Humidity: 14 Temperature: 28
Humidity: 17 Temperature: 27
Humidity: 13 Temperature: 13
Humidity: 10 Temperature: 13
Humidity: 10 Temperature: 37
Humidity: 11 Temperature: 12
Humidity: 37 Temperature: 50
High Temperature Detected
>>>
```