Assignment -2 Python Programming

Assignment Date	27 September 2022
Student Name	Mr. Sakthi Dasan B A
Student Roll Number	2019503555
Maximum Marks	2 Marks

Question:

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

Solution:

```
Source code:
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
i=0
while i<=10:
 humidity, temperature = generate_values()
  print('Humidity:', humidity, 'Temperature:', temperature)
 if temperature>=40:
    print('Alarm Activated : High Temperature Detected\n-----')
 i=i+1
 sleep(0.50)
```

Output:

Humidity: 10 Temperature: 38 Humidity: 10 Temperature: 45 Alarm Activated : High Temperature Detected -----Humidity: 14 Temperature: 25 Humidity: 13 Temperature: 18 Humidity: 42 Temperature: 49 Alarm Activated : High Temperature Detected -----Humidity: 26 Temperature: 30 Humidity: 13 Temperature: 23 Humidity: 30 Temperature: 39 Humidity: 23 Temperature: 40 Alarm Activated : High Temperature Detected -----Humidity: 10 Temperature: 23 Humidity: 10 Temperature: 43 Alarm Activated : High Temperature Detected _____