Assignment -2
Python Programming

Assignment Date	03 October 2022
Student Name	S.Dhanushavarthini
Student Roll Number	19035
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

Solution:

```
Import random
From time import sleep
Def generate_values():
    Temperature=random.randint(10,50)
    Humidity=random.Ranint(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')
```

```
1  import random
2  from time import sleep
3
4  def generate_values():
5      temperature = random.randint(10, 50)
6      humidity = random.randint(10, temperature)
7      return humidity, temperature
8
9  humidity = temperature = 0
10
11  while temperature < 45:
12      humidity, temperature = generate_values()
13      print('Humidity:', humidity, 'Temperature:',
            temperature)
14      sleep(0.50)
15
16  print('High Temperature Detected')
17
18
```

```
Humidity: 16 Temperature: 31
Humidity: 32 Temperature: 42
Humidity: 25 Temperature: 30
Humidity: 16 Temperature: 37
Humidity: 11 Temperature: 19
Humidity: 14 Temperature: 21
Humidity: 13 Temperature: 23
Humidity: 10 Temperature: 11
Humidity: 16 Temperature: 17
Humidity: 24 Temperature: 29
Humidity: 18 Temperature: 36
Humidity: 32 Temperature: 32
Humidity: 14 Temperature: 26
Humidity: 47 Temperature: 47
High Temperature Detected
```