Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	Mr. Vishnuprabhu J
Student Roll Number	923819106057
Maximum Marks	2 Marks

Question-1:

Build a python code, assume u 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
import time
while True:
  Temperature = random.randint(0,150)
  Humidity = random.randint(0,100)
  if Temperature > 100 and Humidity > 80:
    print("Temperature : " + str(Temperature))
    print("Humidity : " + str(Humidity))
    print("Temperature and Humidity is High")
    print("Alarm On !!!")
    print(" ")
    time.sleep(2)
  else:
    print("Temperature : " + str(Temperature))
    print("Humidity : " + str(Humidity))
    print("Range is Normal")
    print(" ")
```

Range is Normal Temperature : 80 Humidity: 83 Range is Normal Temperature : 125 Humidity: 30 Range is Normal Temperature: 139 Humidity: 7 Range is Normal Temperature : 2 Humidity: 18 Range is Normal Temperature : 24 Humidity: 29 Range is Normal Temperature : 18 Humidity: 88 Range is Normal Temperature : 143 Humidity: 39 Range is Normal Temperature : 14 Humidity: 63 Range is Normal Temperature : 111 Humidity: 96 Temperature and Humidity is High Alarm On !!!