

ASSIGNMENT 2

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.

Code:

```
import random
import time

while (1):
    temperature = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temperature>60 and humidity>60:
        print ("ALERT!! Detected temperature: "
            +str(temperature)+"°C"+" " +"Detected humidity: "
            +str(humidity))
    elif temperature > 60:
        print("ALERT!! Detected temperature: " +
            str(temperature) + "°C")
    elif humidity > 60:
        print("ALERT!! Detected humidity: "+str(humidity))
    time.sleep(1)
```

```
Python 3.11 (64-bit)
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> import random
>>> import time
>>>
>>> while(1):
...     temperature = random.randint(0, 100)
...     humidity = random.randint(0, 100)
...     if temperature>60 and humidity>60:
...         print ("ALERT!! Detected temperature: "+str(temperature)+"°C"+" " + "Detected humidity: "+str(humidity))
...     elif temperature > 60:
...         print("ALERT!! Detected temperature: " + str(temperature) + "°C")
...     elif humidity > 60:
...         print("ALERT!! Detected humidity: "+str(humidity))
...     time.sleep(1)
...
ALERT!! Detected humidity: 98
ALERT!! Detected humidity: 96
ALERT!! Detected temperature: 87°C Detected humidity: 81
ALERT!! Detected humidity: 66
ALERT!! Detected temperature: 78°C
ALERT!! Detected humidity: 86
ALERT!! Detected humidity: 83
ALERT!! Detected humidity: 88
ALERT!! Detected temperature: 95°C
ALERT!! Detected temperature: 95°C
ALERT!! Detected temperature: 85°C
ALERT!! Detected humidity: 74
ALERT!! Detected temperature: 67°C
ALERT!! Detected humidity: 92
ALERT!! Detected temperature: 99°C Detected humidity: 100
ALERT!! Detected temperature: 75°C Detected humidity: 68
ALERT!! Detected temperature: 95°C Detected humidity: 83
ALERT!! Detected temperature: 64°C
ALERT!! Detected temperature: 96°C Detected humidity: 79
ALERT!! Detected humidity: 78
ALERT!! Detected humidity: 69
ALERT!! Detected temperature: 85°C Detected humidity: 61
ALERT!! Detected temperature: 86°C
ALERT!! Detected temperature: 65°C Detected humidity: 85
ALERT!! Detected humidity: 98
ALERT!! Detected temperature: 64°C
ALERT!! Detected temperature: 89°C Detected humidity: 93
ALERT!! Detected humidity: 80
```

```
Python 3.11 (64-bit)
ALERT!! Detected temperature: 64°C
ALERT!! Detected temperature: 89°C Detected humidity: 93
ALERT!! Detected humidity: 88
ALERT!! Detected humidity: 75
ALERT!! Detected humidity: 61
ALERT!! Detected temperature: 84°C Detected humidity: 74
ALERT!! Detected temperature: 93°C
ALERT!! Detected temperature: 94°C Detected humidity: 66
ALERT!! Detected humidity: 89
ALERT!! Detected humidity: 61
ALERT!! Detected temperature: 85°C Detected humidity: 64
ALERT!! Detected humidity: 94
ALERT!! Detected temperature: 99°C
ALERT!! Detected temperature: 83°C Detected humidity: 87
ALERT!! Detected temperature: 61°C Detected humidity: 97
ALERT!! Detected humidity: 68
ALERT!! Detected temperature: 62°C
ALERT!! Detected humidity: 88
ALERT!! Detected humidity: 89
ALERT!! Detected temperature: 65°C Detected humidity: 82
ALERT!! Detected temperature: 69°C Detected humidity: 82
ALERT!! Detected humidity: 65
ALERT!! Detected temperature: 89°C
ALERT!! Detected humidity: 99
ALERT!! Detected humidity: 64
ALERT!! Detected temperature: 93°C
ALERT!! Detected temperature: 63°C
ALERT!! Detected temperature: 91°C Detected humidity: 86
ALERT!! Detected humidity: 92
ALERT!! Detected temperature: 92°C
ALERT!! Detected temperature: 82°C
ALERT!! Detected temperature: 96°C
ALERT!! Detected humidity: 93
ALERT!! Detected humidity: 71
ALERT!! Detected temperature: 63°C
ALERT!! Detected temperature: 61°C Detected humidity: 64
ALERT!! Detected temperature: 85°C
ALERT!! Detected temperature: 78°C Detected humidity: 75
ALERT!! Detected temperature: 96°C
ALERT!! Detected temperature: 98°C
ALERT!! Detected humidity: 68
ALERT!! Detected temperature: 76°C
ALERT!! Detected temperature: 90°C Detected humidity: 61
ALERT!! Detected temperature: 63°C Detected humidity: 99
```