Assignment - 2

Python Programming

Assignment Date	19 September 2022
Student Name	Ragabharathi A
Student Roll Number	722819106070
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:

```python
import random
import time

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

```python
import random
import time

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

while (1)

Run: tt

```
ALERT!! Detected temperature: 69°C
ALERT!! Detected temperature: 71°C
ALERT!! Detected temperature: 92°C
ALERT!! Detected temperature: 81°C
ALERT!! Detected humidity: 88
ALERT!! Detected temperature: 70°C
ALERT!! Detected temperature: 93°C
ALERT!! Detected temperature: 69°C
ALERT!! Detected humidity: 66
ALERT!! Detected temperature: 94°C  Detected humidity: 80
ALERT!! Detected temperature: 72°C
ALERT!! Detected humidity: 78
ALERT!! Detected temperature: 61°C
ALERT!! Detected temperature: 92°C
ALERT!! Detected humidity: 89
ALERT!! Detected temperature: 68°C  Detected humidity: 94
ALERT!! Detected temperature: 90°C  Detected humidity: 62
ALERT!! Detected humidity: 82
ALERT!! Detected temperature: 98°C  Detected humidity: 81
ALERT!! Detected humidity: 92
ALERT!! Detected temperature: 97°C
ALERT!! Detected humidity: 69
ALERT!! Detected temperature: 91°C
ALERT!! Detected humidity: 90
ALERT!! Detected temperature: 62°C  Detected humidity: 70
ALERT!! Detected temperature: 92°C  Detected humidity: 70
ALERT!! Detected temperature: 88°C  Detected humidity: 99
```

Version Control   ▶ Run   ☰ TODO   ⊘ Problems   ⊞ Terminal   Python Packages   Python Console   Services

PEP 8: W292 no newline at end of file   13:18   LF   UTF-8   4 spaces   Python 3.10 (temp-humidity)