Assignment -2

Assignment Date	25 September 2022
Student Name	G. Nandha Kumar
Student Roll Number	920819106041
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)
 humi= random.randint(0, 100)
 #Assume temperature threshold as 40
 #Assume humidity threshold as 35
 thresht=40
 threshh=35
 if temp>thresht or humi> threshh :
     print("ALERT!!! Detected temperature is: "+str(temp)+"°C, Detected Humidity is: "+str(humi))
 time.sleep(1)
```

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import random
import time
while (1):
 temp= random.randint(0, 100)
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 #Assume temperature threshold as 40
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 if temp>thresht or humi> threshh :
     print("ALERT!!! Detected temperature is: "+str(temp)+"°C, Detected Humidity
 time.sleep(1)
```

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:/Users/CSELAB/AppData/Local/Programs/Python/Python310/Assignment 2.
py
ALERT!!! Detected temperature is: 84°C, Detected Humidity is: 23
ALERT!!! Detected temperature is: 81°C, Detected Humidity is: 31
ALERT!!! Detected temperature is: 85°C, Detected Humidity is: 38
ALERT!!! Detected temperature is: 89°C, Detected Humidity is: 25
ALERT!!! Detected temperature is: 77°C, Detected Humidity is: 99
ALERT!!! Detected temperature is: 69°C, Detected Humidity is: 16
ALERT!!! Detected temperature is: 31°C, Detected Humidity is: 78
ALERT!!! Detected temperature is: 3°C, Detected Humidity is: 74
ALERT!!! Detected temperature is: 38°C, Detected Humidity is: 77
ALERT!!! Detected temperature is: 75°C, Detected Humidity is: 68
ALERT!!! Detected temperature is: 23°C, Detected Humidity is: 61
ALERT!!! Detected temperature is: 97°C, Detected Humidity is: 93
ALERT!!! Detected temperature is: 44°C, Detected Humidity is: 67
ALERT!!! Detected temperature is: 32°C, Detected Humidity is: 41
```