

Assignment -2

Assignment Date	25 September 2022
Student Name	N. Nalinashree
Student Roll Number	920819106040
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:

n:

```
import random
import time
while (1):
    temperature= random.randint(0, 100)
    humidity= random.randint(0, 100)
    #Assume temperature threshold as 50
    #Assume humidity threshold as 40
    threshtemperature=50
    threshhumidity=40
    if temperature>threshtemperature or humidity> threshhumidity :
        print("ALERT!!! Detected temperature is: "+str(temperature)+
              "°C, Detected Humidity is:" +str(humidity))
    time.sleep(1)
```

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```
import random
import time
while (1):
    temperature= random.randint(0, 100)
    humidity= random.randint(0, 100)
    #Assume temperature threshold as 50
    #Assume humidity threshold as 40
    threshtemperature=50
    threshhumidity=40
    if temperature>threshtemperature or humidity> threshhumidity :
        print("ALERT!!! Detected temperature is: "+str(temperature)+"°C,
              Detected Humidity is: "+str(humidity))
    time.sleep(1)
```

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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: 81°C, Detected Humidity is:64

ALERT!!! Detected temperature is: 2°C, Detected Humidity is:76

ALERT!!! Detected temperature is: 53°C, Detected Humidity is:20

ALERT!!! Detected temperature is: 57°C, Detected Humidity is:31

ALERT!!! Detected temperature is: 31°C, Detected Humidity is:96

ALERT!!! Detected temperature is: 74°C, Detected Humidity is:100

ALERT!!! Detected temperature is: 86°C, Detected Humidity is:86

ALERT!!! Detected temperature is: 88°C, Detected Humidity is:74

ALERT!!! Detected temperature is: 67°C, Detected Humidity is:63

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