

ASSIGNMENT-2

Student name: Biplab das S

Roll No: 714019106015

Question: Build a python code, Assume you get temperature and humidity value (generated with a random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import time #importing the time lib
import random #importing the random lib
i=0 #initiating with 0
while (i<5): #iterating only for 5 times
    i=i+1
    time.sleep(1) #1sec
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"the temperature is low")
    elif temp<=25:
        print(temp,"the temperature is ok & normal")
    else:
        print(temp,"the temperature is absolutely high")
    if humid<=50:
        print(humid,"the humidity is low")
    elif humid<=80:
        print(humid,"the humidity is ok & normal")
    else:
        print(humid,"the humidity is definitely high")
```

Simulated Output:

The image shows a screenshot of a Python IDE with two windows. The left window, titled 'IDLE Shell 3.9.8', displays the output of a Python script. The output consists of 19 lines of text, each representing a simulated weather condition. The right window, titled 'Assignment2_22_9.py', shows the source code of the script. The code imports the 'time' and 'random' modules, initializes a counter 'i' to 0, and enters a 'while' loop that runs 5 times. Inside the loop, it generates random temperature and humidity values and prints them based on specific ranges.

```
Python 3.9.8 (tags/v3.9.8:bb3fdec, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
C:\Users\acer\Desktop\ibmp\project\Team Lead\Assignments\Assignment2_22_9.py
29 the temperature is absolutely high
57 the humidity is ok & normal
25 the temperature is ok & normal
95 the humidity is definitely high
25 the temperature is ok & normal
99 the humidity is definitely high
27 the temperature is absolutely high
46 the humidity is low
19 the temperature is ok & normal
19 the humidity is low
>>>
```

```
Assignment2_22_9.py - C:/Users/acer/Desktop/ibmp\project\Team Lead\Assignments\Assignm...
File Edit Format Run Options Window Help
import time #importing the time lib
import random #importing the random lib
i=0 #initiating with 0
while (i<5): #iterating only for 5 times
    i=i+1
    time.sleep(1) #1sec
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"the temperature is low")
    elif temp<=25:
        print(temp,"the temperature is ok & normal")
    else:
        print(temp,"the temperature is absolutely high")
    if humid<=50:
        print(humid,"the humidity is low")
    elif humid<=80:
        print(humid,"the humidity is ok & normal")
    else:
        print(humid,"the humidity is definitely high")
```

Ln: 15 Col: 4

Ln: 7 Col: 27

30°C Partly cloudy 20:07 23/09/2022