Assignment -2

Python program

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Maximum Marks	***2 Marks***

1.Build a python code :

Assume u get a 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 SOLUTION:

```
import random

def temperature():
        value=random.randint(25,100)
        return value

t=temperature()

def humidity():
        range=random.randint(40,100)
        return range

h=humidity()

#TEMPERATURE

if t>30:
        print("High temperature is detetcted")
elif t==30:
        print("Temprature reached maximum thershold  of 30 degrees celsius")
else:
        print("Temperature is good")

#HUMIDITY

if h>65 :
        print("High humidity detetcted")
elif t == 65:
        print("Humidity reached maximum thershold of 65 percent")
else:
        print("Humidity is good")
```

Output

assignment02.py - D:/IBM PROJECT/assignment02.py (3.9.8)

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```
import random

def temperature():
    value = random.randint(25,100)
    return value

t=temperature()

def humidity():
    range=random.randint(40,100)
    return range

h=humidity()

#TEMPERATURE

if t>30:
    print("High temperature is detetcted")
elif t==30:
    print("Temprature reached maximum thershold  of 30 degrees celsius")
else:
    print("Temperature is good")

#HUMIDITY

if h>65 :
    print("High humidity detetcted")
elif t == 65:
    print("Humidity reached maximum thershold of 65 percent")
else:
    print("Humidity is good")
```

IDLE Shell 3.9.8

File Edit Shell Debug Options Window Help

```
Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov  5 2021, 20:48:33) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/IBM PROJECT/assignment02.py ==========
High temperature is detetcted
Humidity is good
>>>
```