

ASSIGNMENT 2

Python Programming

Assignment Date	21 September 2022
Student Name	ILAMATHI M
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Maximum marks	2 marks

QUESTION:

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

CODE:

```
import random
import time

def getTemperature():
    return random.randint(0,50)
def getHumidity():
    return random.randint(0,100)

while(True):
    currTemp=getTemperature()
    currHumidity=getHumidity()

    print("Current Temperature: ",currTemp)
    print("Current Humidity: ",currHumidity)

    if currTemp > 30:
        print("Warning!! Temperature is too high !!")
    if currHumidity < 20:
        print("Warning!! Humidity is too low !!")
    print("-----")
    time.sleep(2)
```

```
ilamathi code.py - C:/Users/anigrace/Downloads/ilamathi code.py (3.7.0)
File Edit Format Run Options Window Help
import random
import time

def getTemperature():
    return random.randint(0,50)
def getHumidity():
    return random.randint(0,100)

while(True):
    currTemp=getTemperature()
    currHumidity=getHumidity()

    print("Current Temperature: ",currTemp)
    print("Current Humidity: ",currHumidity)

    if currTemp > 30:
        print("Warning!! Temperature is too high !!")
    if currHumidity < 20:
        print("Warning!! Humidity is too low !!")
    print("-----")
    time.sleep(2)
```

OUTPUT :

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/anigrace/Downloads/ilamathi code.py =====
Current Temperature: 10
Current Humidity: 70
-----
Current Temperature: 9
Current Humidity: 78
-----
Current Temperature: 23
Current Humidity: 75
-----
Current Temperature: 14
Current Humidity: 53
-----
Current Temperature: 24
Current Humidity: 58
-----
Current Temperature: 37
Current Humidity: 99
Warning!! Temperature is too high !!
-----
Current Temperature: 31
Current Humidity: 46
Warning!! Temperature is too high !!
-----
Current Temperature: 49
Current Humidity: 17
Warning!! Temperature is too high !!
Warning!! Humidity is too low !!
-----
Current Temperature: 22
Current Humidity: 78
-----
```