

Assignment date	07 November 2022
Student Name	Ms.M.Dhanalakshmi
Student Roll Number	821719106010
Maximum Marks	2 Marks

Question -2

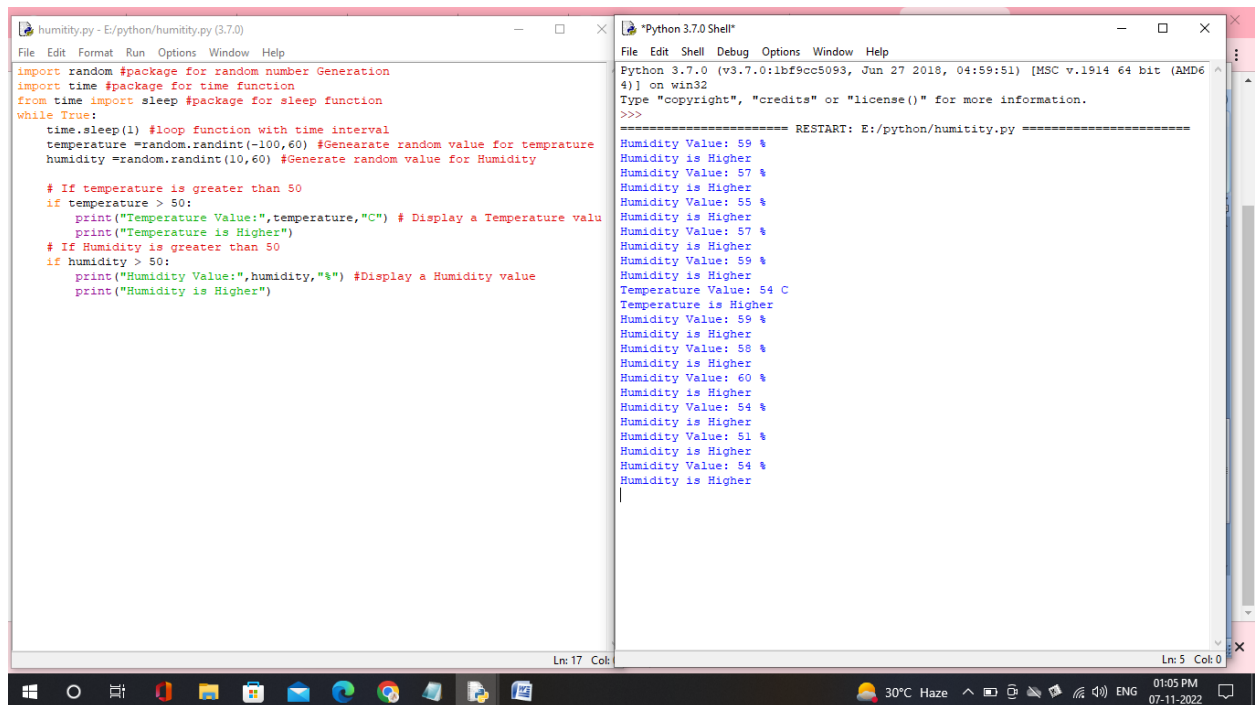
Build a python code, assume it get temperature and humidity values(generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Code

```
import random #package for random number Generation
import time #package for time function
from time import sleep #package for sleep function
while True:
    time.sleep(1) #loop function with time interval
    temperature =random.randint(-100,60) #Generate random value for
temperature
    humidity =random.randint(10,60) #Generate random value for Humidity

    # If temperature is greater than 50
    if temperature > 50:
        print("Temperature Value:",temperature,"C") # Display a Temperature
value
        print("Temperature is Higher")
    # If Humidity is greater than 50
    if humidity > 50:
        print("Humidity Value:",humidity,"%") #Display a Humidity value
        print("Humidity is Higher")
```

Output



The image shows a Windows desktop with two windows open. The left window is a text editor titled 'humidity.py - E:/python/humidity.py (3.7.0)' containing a Python script. The right window is a 'Python 3.7.0 Shell' showing the output of the script. The script generates random temperature and humidity values and prints them if they are greater than 50. The output shows multiple iterations of these values.

```
humidity.py - E:/python/humidity.py (3.7.0)
File Edit Format Run Options Window Help
import random #package for random number Generation
import time #package for time function
from time import sleep #package for sleep function
while True:
    time.sleep(1) #loop function with time interval
    temperature = random.randint(-100,60) #Generate random value for temperature
    humidity = random.randint(10,60) #Generate random value for Humidity

    # If temperature is greater than 50
    if temperature > 50:
        print("Temperature Value:",temperature,"C") # Display a Temperature valu
        print("Temperature is Higher")
    # If Humidity is greater than 50
    if humidity > 50:
        print("Humidity Value:",humidity,"%") #Display a Humidity value
        print("Humidity is Higher")

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 (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/python/humidity.py =====
Humidity Value: 59 %
Humidity is Higher
Humidity Value: 57 %
Humidity is Higher
Humidity Value: 55 %
Humidity is Higher
Humidity Value: 57 %
Humidity is Higher
Humidity Value: 59 %
Humidity is Higher
Temperature Value: 54 C
Temperature is Higher
Humidity Value: 59 %
Humidity is Higher
Humidity Value: 58 %
Humidity is Higher
Humidity Value: 60 %
Humidity is Higher
Humidity Value: 54 %
Humidity is Higher
Humidity Value: 51 %
Humidity is Higher
Humidity Value: 54 %
Humidity is Higher
|
```

Ln: 17 Col: 0 | Ln: 5 Col: 0

Windows taskbar at the bottom shows the date and time as 01:05 PM 07-11-2022, along with system icons for temperature (30°C Haze), network, and volume.