

QUESTION:

BUILD A PYTHON CODE ,ASSUME U GET TEMPERATURE AND HUMIDITY VALUES (GENERATED WITH RANDOM FUNCTION TO A VARIABLE)AND WRITE A CONDITION TO CONTINUOUSLY DELETE ALARM IN CASE OF HIGH TEMPERATURE.

PROGRAM:

```
import random
import time

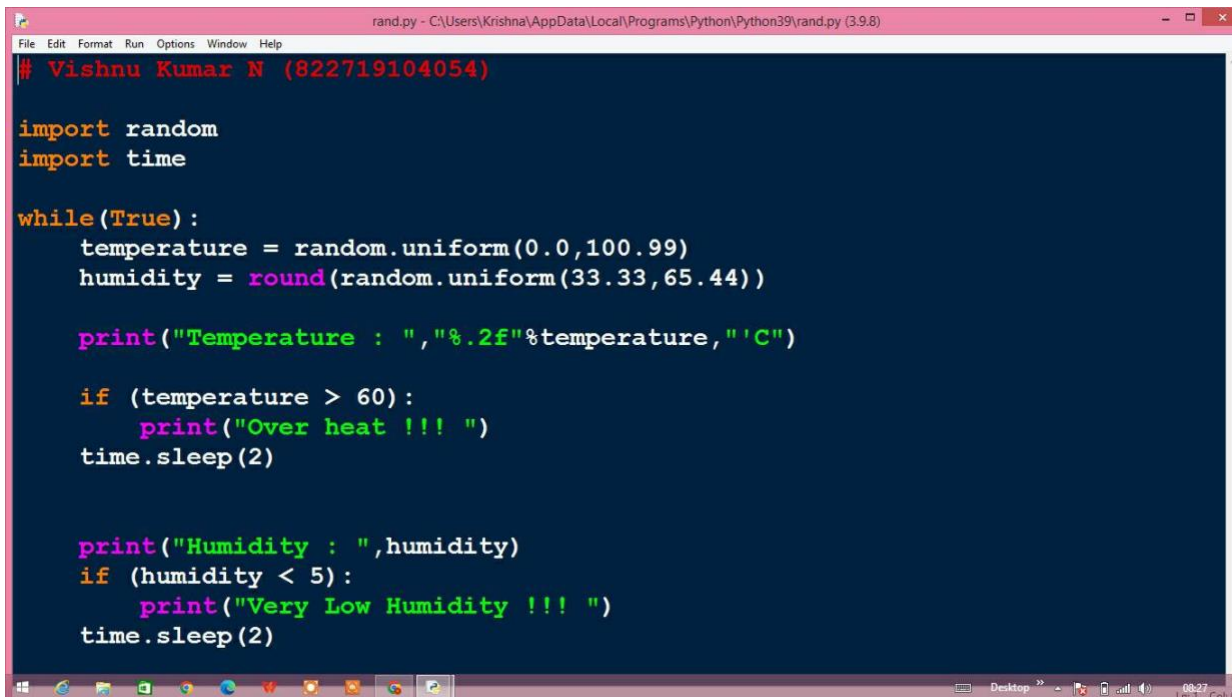
while(True):
    temperature = random.uniform(0.0,100.99)
    humidity = round(random.uniform(33.33,65.44))

    print("Temperature : ", "%.2f"%temperature, "C")

    if (temperature > 60):
        print("Over heat !!! ")
        time.sleep(2)

    print("Humidity : ", humidity)
    if (humidity < 5):
        print("Very Low Humidity !!! ")
        time.sleep(2)
```

PHOTOS FOR PROOF:

A screenshot of a Windows text editor window titled 'rand.py - C:\Users\Krishna\AppData\Local\Programs\Python\Python39\rand.py (3.9.8)'. The editor contains a Python script with the following code:

```
# Vishnu Kumar N (822719104054)

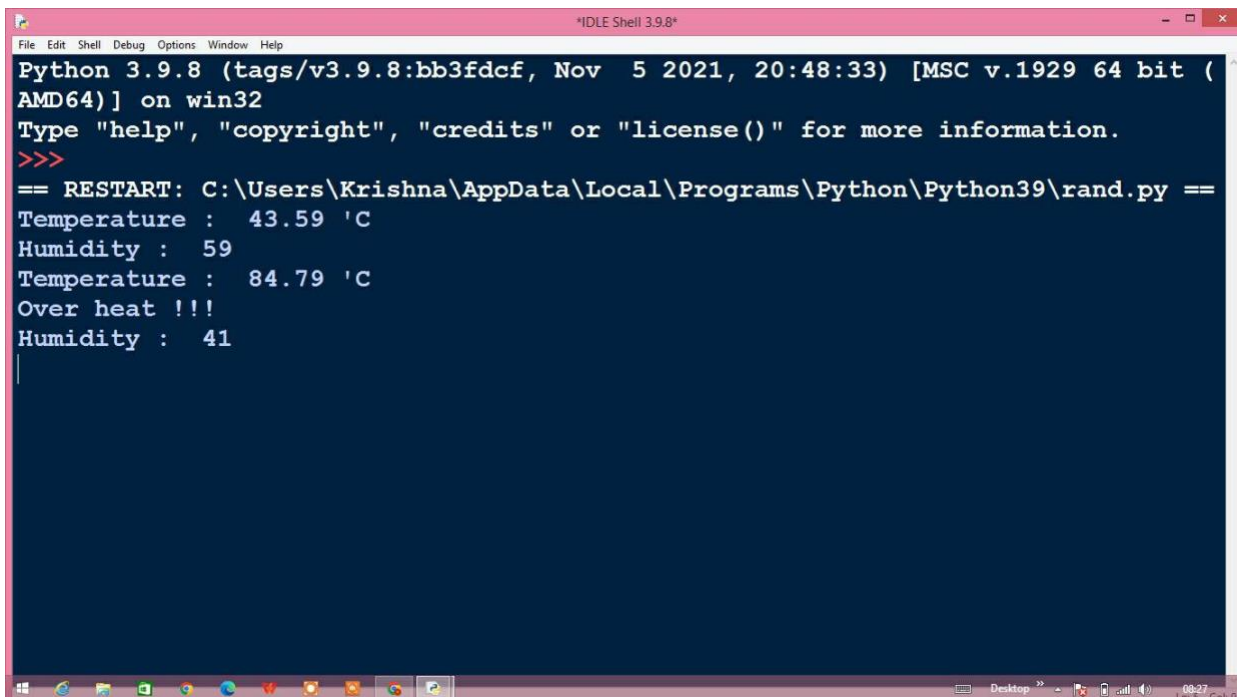
import random
import time

while(True):
    temperature = random.uniform(0.0,100.99)
    humidity = round(random.uniform(33.33,65.44))

    print("Temperature : ", "%.2f"%temperature, "C")

    if (temperature > 60):
        print("Over heat !!! ")
        time.sleep(2)

    print("Humidity : ", humidity)
    if (humidity < 5):
        print("Very Low Humidity !!! ")
        time.sleep(2)
```

The script uses a while loop to continuously generate random temperature and humidity values. It prints the temperature in Celsius and checks if it's above 60, printing 'Over heat !!!' and sleeping for 2 seconds. It also prints the humidity and checks if it's below 5, printing 'Very Low Humidity !!!' and sleeping for 2 seconds. The Windows taskbar is visible at the bottom.A screenshot of a Windows command prompt window titled '*IDLE Shell 3.9.8*'. It shows the execution of the Python script from the previous image. The output is as follows:

```
Python 3.9.8 (tags/v3.9.8:bb3fddf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:\Users\Krishna\AppData\Local\Programs\Python\Python39\rand.py ==
Temperature : 43.59 'C
Humidity : 59
Temperature : 84.79 'C
Over heat !!!
Humidity : 41
```

The shell shows the standard Python startup message, followed by the execution of the script which prints the temperature and humidity values as defined in the code. The Windows taskbar is visible at the bottom.

