

Assignment-2

Python Programming

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| Assignment Date | 21 September 2022 |
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| Student Roll Number | 411719106012 |
| Marks | 2 Marks |

Question :

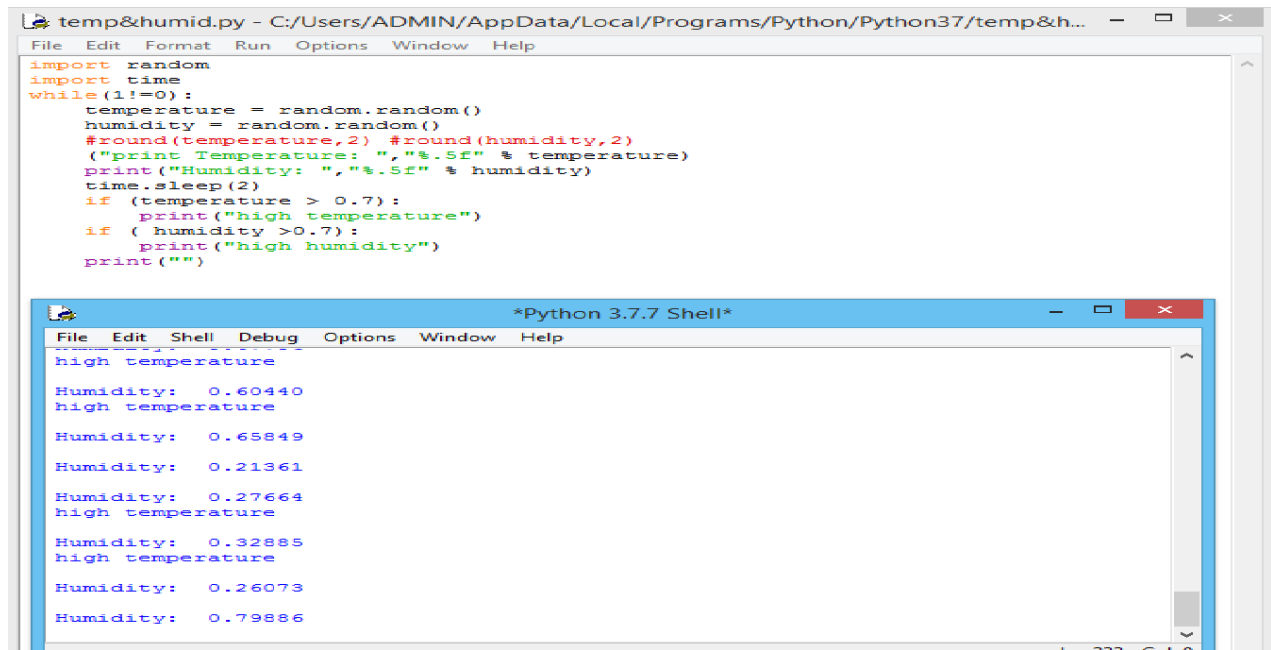
Build a python code, assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution :

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    ("print Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    timer.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

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Execution&Result :



The image shows a screenshot of a Python script execution. The top window is a text editor titled "temp&humid.py - C:/Users/ADMIN/AppData/Local/Programs/Python/Python37/temp&h...". It contains the following Python code:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    ("print Temperature: ", "%.5f" % temperature)
    print ("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print ("")
```

The bottom window is a terminal titled "*Python 3.7.7 Shell*". It displays the output of the script, which consists of a loop of humidity values and "high temperature" messages. The output is as follows:

```
high temperature
Humidity:  0.60440
high temperature
Humidity:  0.65849
Humidity:  0.21361
Humidity:  0.27664
high temperature
Humidity:  0.32885
high temperature
Humidity:  0.26073
Humidity:  0.79886
```