

IBM ASSIGNMENT – 2

ASSIGNMENT QUESTION

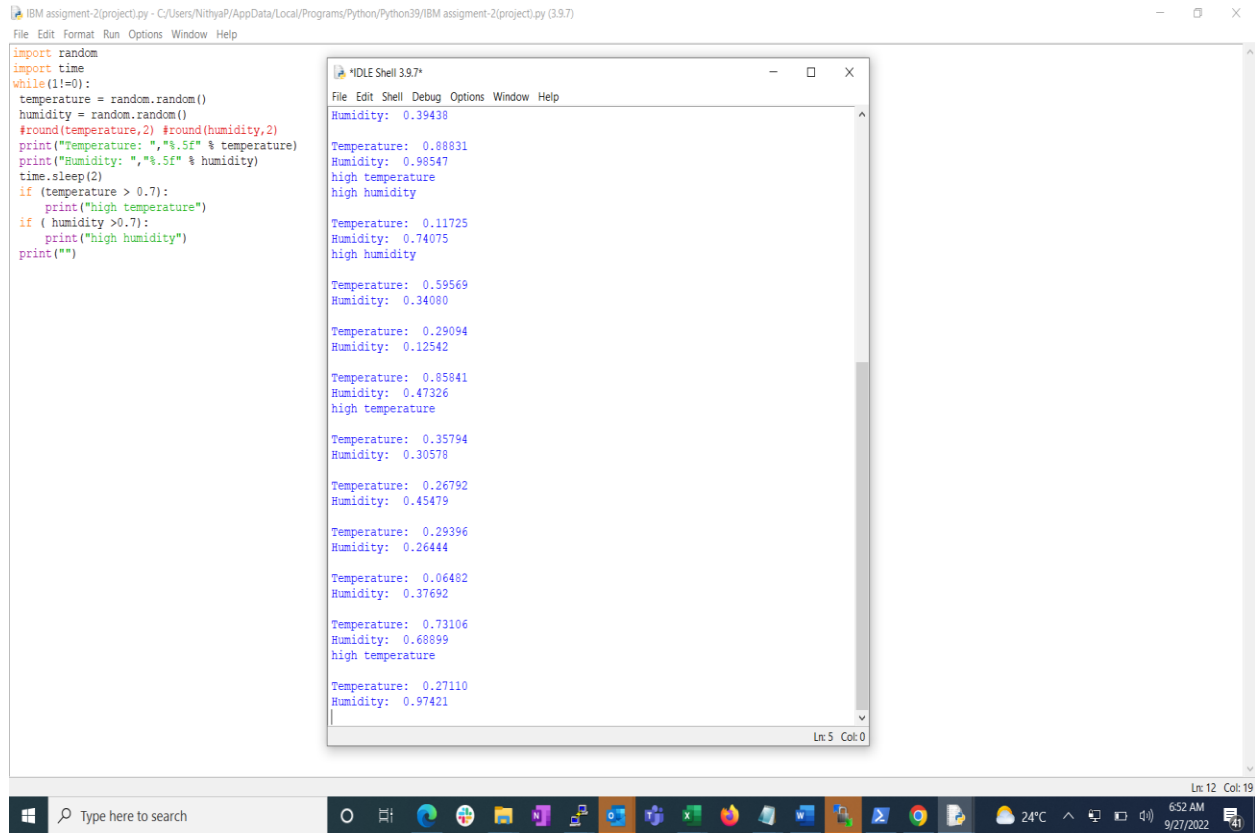
Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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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("")
```

EXECUTION RESULT



The screenshot displays a Python script in an IDE window titled "IBM assignment-2(project).py". The script uses the `random` and `time` modules to generate random temperature and humidity values. It includes a `while` loop that prints these values and checks for "high temperature" or "high humidity" conditions. A second window, titled "IDLE Shell 3.9.7*", shows the output of the script, displaying the generated values and the corresponding condition checks.

```
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("")
```

Output from IDLE Shell 3.9.7:

```
Humidity: 0.39438
Temperature: 0.88831
Humidity: 0.96547
high temperature
high humidity

Temperature: 0.11725
Humidity: 0.74075
high humidity

Temperature: 0.59569
Humidity: 0.34080

Temperature: 0.29094
Humidity: 0.12542

Temperature: 0.85841
Humidity: 0.47326
high temperature

Temperature: 0.35794
Humidity: 0.30578

Temperature: 0.26792
Humidity: 0.45479

Temperature: 0.29396
Humidity: 0.26444

Temperature: 0.06482
Humidity: 0.37692

Temperature: 0.73106
Humidity: 0.68899
high temperature

Temperature: 0.27110
Humidity: 0.97421
```

The taskbar at the bottom shows the system clock as 6:52 AM on 9/27/2022, with a temperature of 24°C.