

IBM ASSIGNMENT – 2

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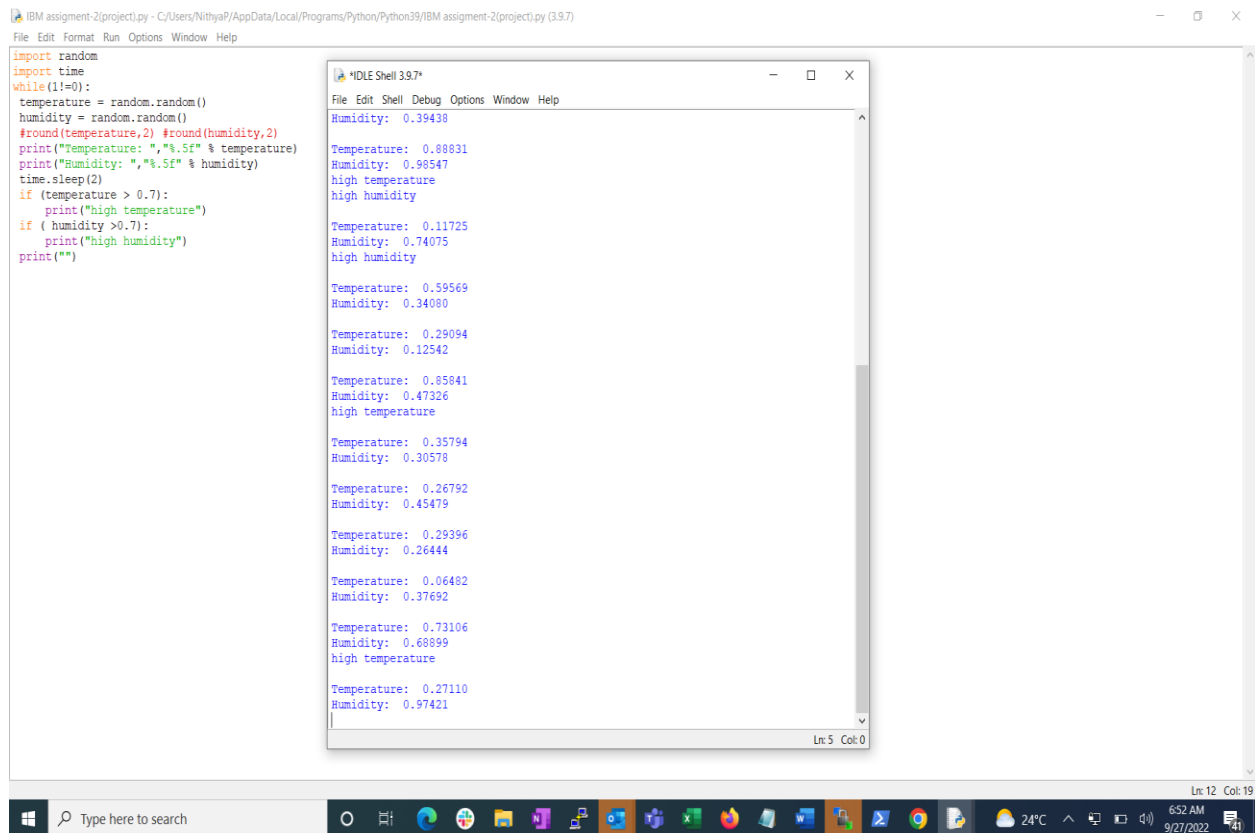
ASSIGNMENT QUESTION

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.

PYTHON CODE:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    ("print Temperature: ", "%0.5f" % temperature)
    print("Humidity: ", "%0.5f" % 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 and its execution output in a separate window. The script generates random temperature and humidity values, prints them, and checks for high values. The output window shows the results of these random generations.

```
IBM assignment-2(project).py - C:/Users/NithyaP/AppData/Local/Programs/Python/Python39/IBM assignment-2(project).py (3.9.7)
File Edit Format Run Options Window Help

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("")

IDLE Shell 3.9.7*
File Edit Shell Debug Options Window Help

Humidity: 0.39438

Temperature: 0.88831
Humidity: 0.98547
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

Ln: 5 Col: 0
```

Ln: 12 Col: 19

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