

IBM ASSIGNMENT – 2

Python Programming

Assignment Date	23 -09- 2022
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1.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.

```
import random  
t=random.randint(25,100)  
if t>30:  
    print(t, 'high temperature detected')  
    print('buzzer on, alarm sound is high')  
elif t==30:  
    print(t, 'temperature reached maximum')  
else:  
    print(t, 'temperature is good')  
h=random.randint(40, 100)  
if h>65:  
    print (h, 'high humidity is detected')
```

```

print('buzzer on, alarm sound is high')

elif h==65:

    print (h,'humidity reached maximum')

else:

    print (h, 'humidity is good')

```

OUTPUT

The screenshot shows a dual-pane terminal window. The left pane displays Python code for generating random temperature and humidity values and printing status messages based on thresholds. The right pane shows the terminal session where the code is run multiple times, each time restarting the application and displaying different results.

```

File Edit Format Run Options Window Help
File Edit Shell Debug Options Window Help
import random
t=random.randint(25,100)
if t>30:
    print(t, 'high temperature detected')
    print('buzzer on, alarm sound is high')
elif t==30:
    print(t, 'temperature reached maximum')
else:
    print(t, 'temperature is good')
h=random.randint(40, 100)
if h>65:
    print (h, 'high humidity is detected')
    print('buzzer on, alarm sound is high')
elif h==65:
    print (h,'humidity reached maximum')
else:
    print (h, 'humidity is good')

Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932
64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/HARIKRISHNAN/OneDrive/Desktop/IBM/assign2.py =====
=====
80 high temperature detected
buzzer on, alarm sound is high
65 humidity reached maximum
>>>
===== RESTART: C:/Users/HARIKRISHNAN/OneDrive/Desktop/IBM/assign2.py =====
80 high temperature detected
buzzer on, alarm sound is high
60 humidity is good
>>>
===== RESTART: C:/Users/HARIKRISHNAN/OneDrive/Desktop/IBM/assign2.py =====
67 high temperature detected
buzzer on, alarm sound is high
55 humidity is good
>>>
===== RESTART: C:/Users/HARIKRISHNAN/OneDrive/Desktop/IBM/assign2.py =====
64 high temperature detected
buzzer on, alarm sound is high
98 high humidity is detected
buzzer on, alarm sound is high

```