

Assignment Date	October 5, 2022
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Maximum marks	2 Marks

IBM ASSIGNMENT 2

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.

PROGRAM:

```
import random

import time

while(1!=0):

    temperature = random.random()

    humidity = random.random()

    print("Temperature: ", "%.3f" % temperature)

    print("Humidity: ", "%.3f" % humidity)

    time.sleep(2)

    if (temperature > 0.5):

        print("high temperature")

    if ( humidity >0.5):

        print("high humidity")

    print(" ")
```

Output:

The screenshot shows the Programiz Python Online Compiler interface. The code in the editor is as follows:

```
1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 import time
5 while(1!=0):
6     temperature = random.random()
7     humidity = random.random()
8     print("Temperature: ", "%.3f" % temperature)
9     print("Humidity: ", "%.3f" % humidity)
10    time.sleep(2)
11    if (temperature > 0.5):
12        print("high temperature")
13    if ( humidity >0.5):
14        print("high humidity")
15    print(" ")
16
```

The output in the Shell window shows the following sequence of values:

```
Temperature: 0.237
Humidity: 0.381
Temperature: 0.877
Humidity: 0.727
high temperature
high humidity
Temperature: 0.612
Humidity: 0.930
high temperature
high humidity
Temperature: 0.348
Humidity: 0.578
high humidity
Temperature: 0.957
Humidity: 0.791
high temperature
high humidity
Temperature: 0.784
Humidity: 0.758
high temperature
high humidity
Temperature: 0.890
```

The browser's address bar shows the URL: programiz.com/python-programming/online-compiler/. The top navigation bar includes a Google search bar and a link to the Interactive Python Course. The bottom status bar shows the system clock at 13:54 on 07-10-2022.