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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 displays the Programiz Python Online Compiler interface. The browser's address bar shows the URL `programiz.com/python-programming/online-compiler/`. The interface includes a 'Run' button and a 'Clear' button. The code editor on the left contains a Python script that generates random temperature and humidity values and prints them. The output on the right shows the results of the script's execution.

main.py

```
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
```

Shell

```
Temperature: 0.138
Humidity: 0.591
high humidity

Temperature: 0.461
Humidity: 0.922
high humidity

Temperature: 0.151
Humidity: 0.134
Temperature: 0.471
Humidity: 0.123
Temperature: 0.052
Humidity: 0.460
Temperature: 0.451
Humidity: 0.735
high humidity

Temperature: 0.513
Humidity: 0.267
high temperature

Temperature: 0.078
Humidity: 0.366
Temperature: 0.050
Humidity: 0.249
Temperature: 0.006
```

The bottom of the image shows a Windows taskbar with various application icons, a system clock displaying 14:16 on 07-10-2022, and a language indicator set to ENG IN.