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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 left pane contains a Python script named `main.py` with the following code:

```
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 right pane, titled "Shell", displays the output of the script:

```
Temperature: 0.041
Humidity: 0.160
Temperature: 0.159
Humidity: 0.950
high humidity

Temperature: 0.273
Humidity: 0.398
Temperature: 0.039
Humidity: 0.177
Temperature: 0.772
Humidity: 0.070
high temperature

Temperature: 0.973
Humidity: 0.738
high temperature
high humidity

Temperature: 0.908
Humidity: 0.770
high temperature
high humidity

Temperature: 0.224
Humidity: 0.825
high humidity
```

The bottom of the image shows a Windows taskbar with the date and time 07-10-2022 15:07, and the system status area showing 32°C and Partly sunny.