

IBM assignment 2

Assignment date	29 september 2022
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Maximum marks	2 marks

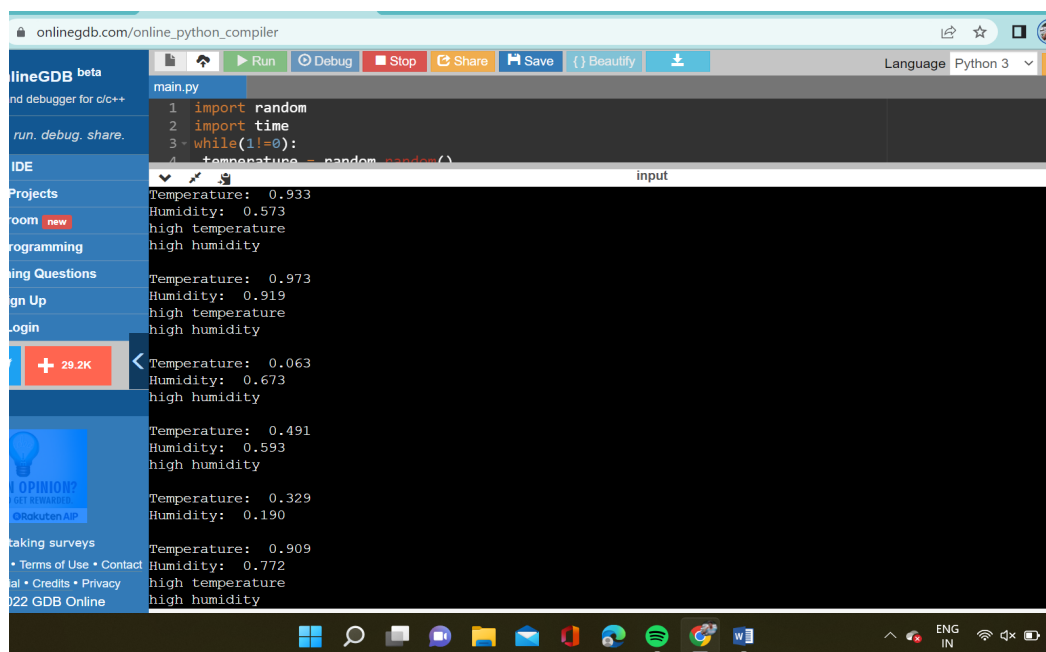
Question no :1

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.

Solution:

```
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 onlinegdb.com online Python compiler interface. The browser address bar displays "onlinegdb.com/online_python_compiler". The interface includes a top toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The left sidebar contains navigation links for IDE, Projects, room, programming, asking Questions, Sign Up, and Login. The main editor area shows a Python script named "main.py" with the following code:

```
1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
```

The output window, labeled "input", displays the following results:

```
Temperature: 0.933
Humidity: 0.573
high temperature
high humidity
Temperature: 0.973
Humidity: 0.919
high temperature
high humidity
Temperature: 0.063
Humidity: 0.673
high humidity
Temperature: 0.491
Humidity: 0.593
high humidity
Temperature: 0.329
Humidity: 0.190
Temperature: 0.909
Humidity: 0.772
high temperature
high humidity
```

The bottom of the image shows a Windows taskbar with various application icons and system status indicators.