

IBM assignment 2

Assignment date	29 september 2022
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Maximum marks	2 marks

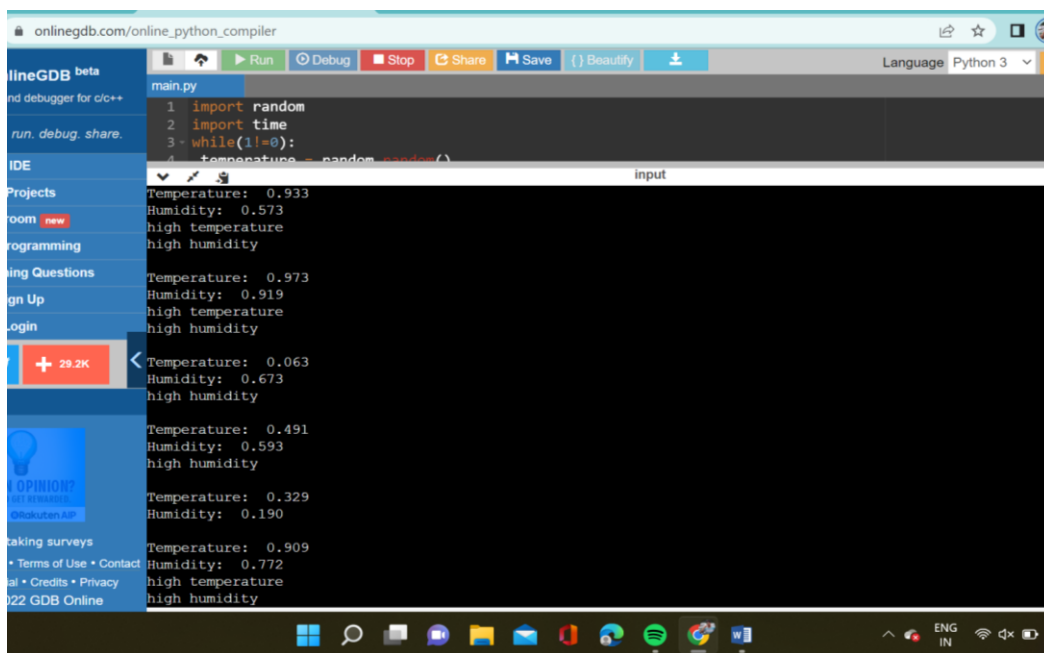
Question no :1

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 code in the editor is as follows:

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

The output window displays the following data:

```
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 interface includes a left sidebar with navigation links, a top toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify, and a bottom status bar showing system icons and language settings.