

Assignment II

Python Programming

Assignment Date	27 September,2022
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Maximum Marks	4 Marks

Question-1:

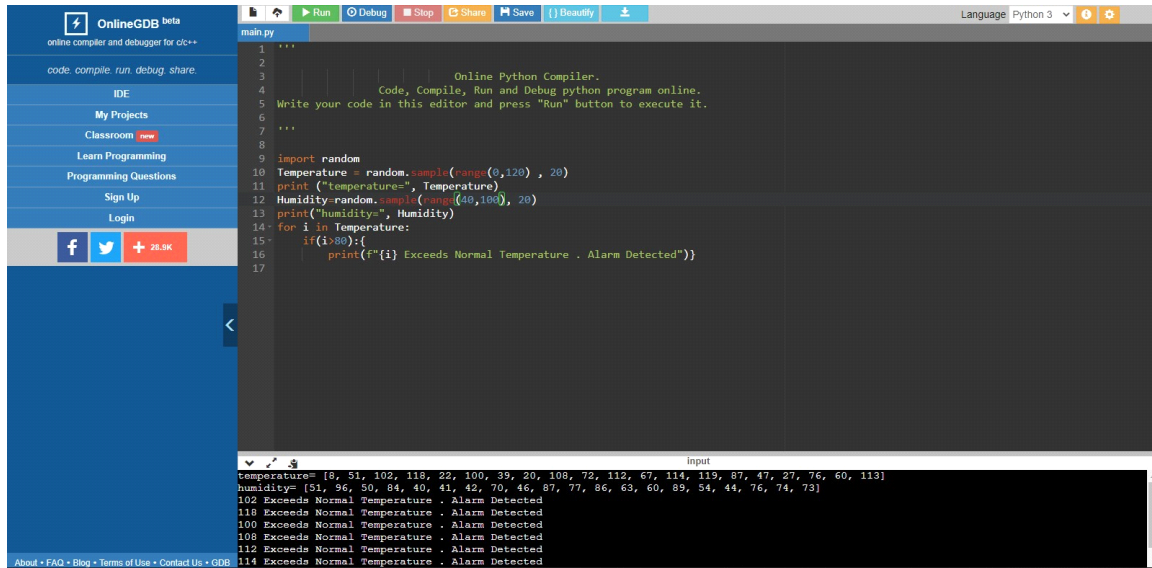
Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature .

SOLUTION:

PYTHON CODE:

```
import random
Temperature = random.sample(range(0,120) , 20)
print ("temperature=", Temperature)
Humidity=random.sample(range(40,100), 20)
print("humidity=", Humidity)
for i in Temperature:
    if(i>80):{
        print(f"{i} Exceeds Normal Temperature . Alarm Detected")}
```

OUTPUT:



The screenshot displays the OnlineGDB beta web interface. On the left is a blue sidebar with navigation links: 'code compile run debug share', 'IDE', 'My Projects', 'Classroom' (with a 'new' badge), 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. Below these are social media icons for Facebook, Twitter, and a '+28.9K' button. The main area features a toolbar with 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a download icon. The language is set to 'Python 3'. The code editor contains a Python script that generates random temperature and humidity values and checks if the temperature exceeds a normal range. The output window at the bottom shows the execution results, including the generated data arrays and the 'Alarm Detected' messages for specific temperature values.

```
1  ...
2
3      Online Python Compiler.
4      Code, Compile, Run and Debug python program online.
5      Write your code in this editor and press "Run" button to execute it.
6  ...
7
8
9  import random
10 Temperature = random.sample(range(0,120) , 20)
11 print ("temperature=", Temperature)
12 Humidity=random.sample(range(40,100), 20)
13 print("humidity=", Humidity)
14 for i in Temperature:
15     if(i>80):{
16         print(f"{i} Exceeds Normal Temperature . Alarm Detected")}
17
```

Input

```
temperature= [8, 51, 102, 118, 22, 100, 39, 20, 108, 72, 112, 67, 114, 119, 87, 47, 27, 76, 60, 113]
humidity= [51, 96, 50, 84, 40, 41, 42, 70, 46, 87, 77, 86, 63, 60, 89, 54, 44, 76, 74, 73]
102 Exceeds Normal Temperature . Alarm Detected
119 Exceeds Normal Temperature . Alarm Detected
100 Exceeds Normal Temperature . Alarm Detected
108 Exceeds Normal Temperature . Alarm Detected
112 Exceeds Normal Temperature . Alarm Detected
114 Exceeds Normal Temperature . Alarm Detected
```

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