

Assignment -2

Assignment Date	28 September 2022
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Student Roll Number	732919ECR044
Maximum Marks	2 Marks

QUESTION:

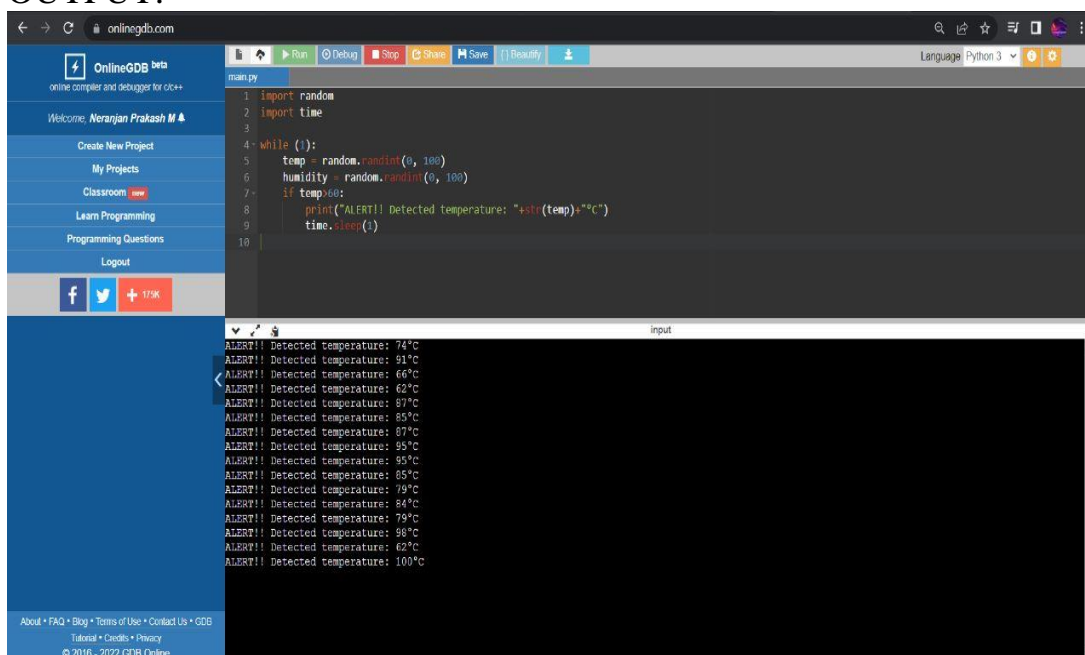
Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Detect alarm incase of high temperature:

```
import random
import time
```

```
while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60:
        print("ALERT!! Detected temperature:
        " +str(temp)+"°C")
        time.sleep(1)
```

OUTPUT:



The screenshot shows the OnlineGDB beta interface. The code is as follows:

```
1 import random
2 import time
3
4 while (1):
5     temp = random.randint(0, 100)
6     humidity = random.randint(0, 100)
7     if temp>60:
8         print("ALERT!! Detected temperature: "+str(temp)+"°C")
9         time.sleep(1)
10
```

The output shows a continuous stream of alerts for temperatures greater than 60°C:

```
ALERT!! Detected temperature: 74°C
ALERT!! Detected temperature: 91°C
ALERT!! Detected temperature: 66°C
ALERT!! Detected temperature: 62°C
ALERT!! Detected temperature: 87°C
ALERT!! Detected temperature: 83°C
ALERT!! Detected temperature: 87°C
ALERT!! Detected temperature: 95°C
ALERT!! Detected temperature: 95°C
ALERT!! Detected temperature: 85°C
ALERT!! Detected temperature: 79°C
ALERT!! Detected temperature: 84°C
ALERT!! Detected temperature: 79°C
ALERT!! Detected temperature: 96°C
ALERT!! Detected temperature: 62°C
ALERT!! Detected temperature: 100°C
```