IBM ASSIGNMENT – 2

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ASSIGNMENT QUESTION:

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.

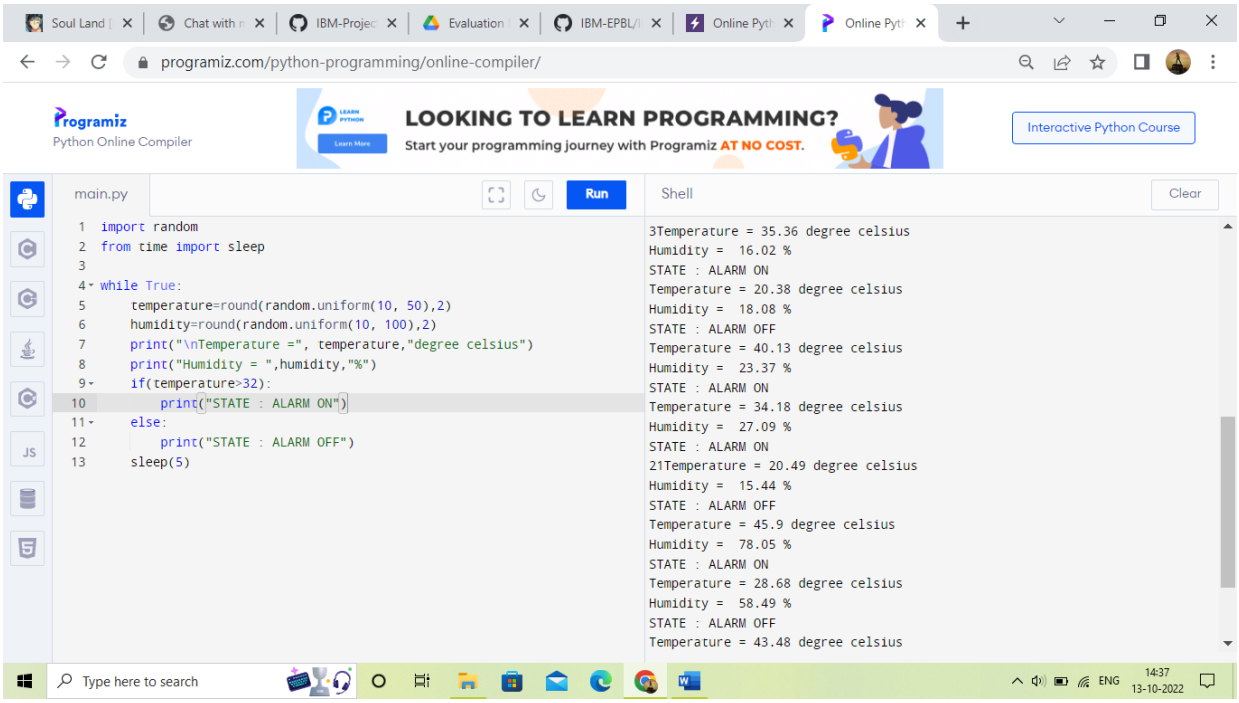
PYTHON CODE:

```
import random
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degree celsius")
    print("Humidity = ",humidity,"%")
    if(temperature>32):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```

EXECUTION RESULT

Output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main.py
Run
Shell
Clear
1 import random
2 from time import sleep
3
4 while True:
5 temperature=round(random.uniform(10, 50),2)
6 humidity=round(random.uniform(10, 100),2)
7 print("\nTemperature =", temperature,"degree celsius")
8 print("Humidity = ",humidity,"%")
9 if(temperature>32):
10 print("STATE : ALARM ON")
11 else:
12 print("STATE : ALARM OFF")
13 sleep(5)
3Temperature = 35.36 degree celsius
Humidity = 16.02 %
STATE : ALARM ON
Temperature = 20.38 degree celsius
Humidity = 18.08 %
STATE : ALARM OFF
Temperature = 40.13 degree celsius
Humidity = 23.37 %
STATE : ALARM ON
Temperature = 34.18 degree celsius
Humidity = 27.09 %
STATE : ALARM ON
21Temperature = 20.49 degree celsius
Humidity = 15.44 %
STATE : ALARM OFF
Temperature = 45.9 degree celsius
Humidity = 78.05 %
STATE : ALARM ON
Temperature = 28.68 degree celsius
Humidity = 58.49 %
STATE : ALARM OFF
Temperature = 43.48 degree celsius
Type here to search
ENG
14:37
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