

IBM -NALAIYA THIRAN

INTERNET OF THINGS

BATCH : B3-3M5E

ASSIGNMENT NO : 2

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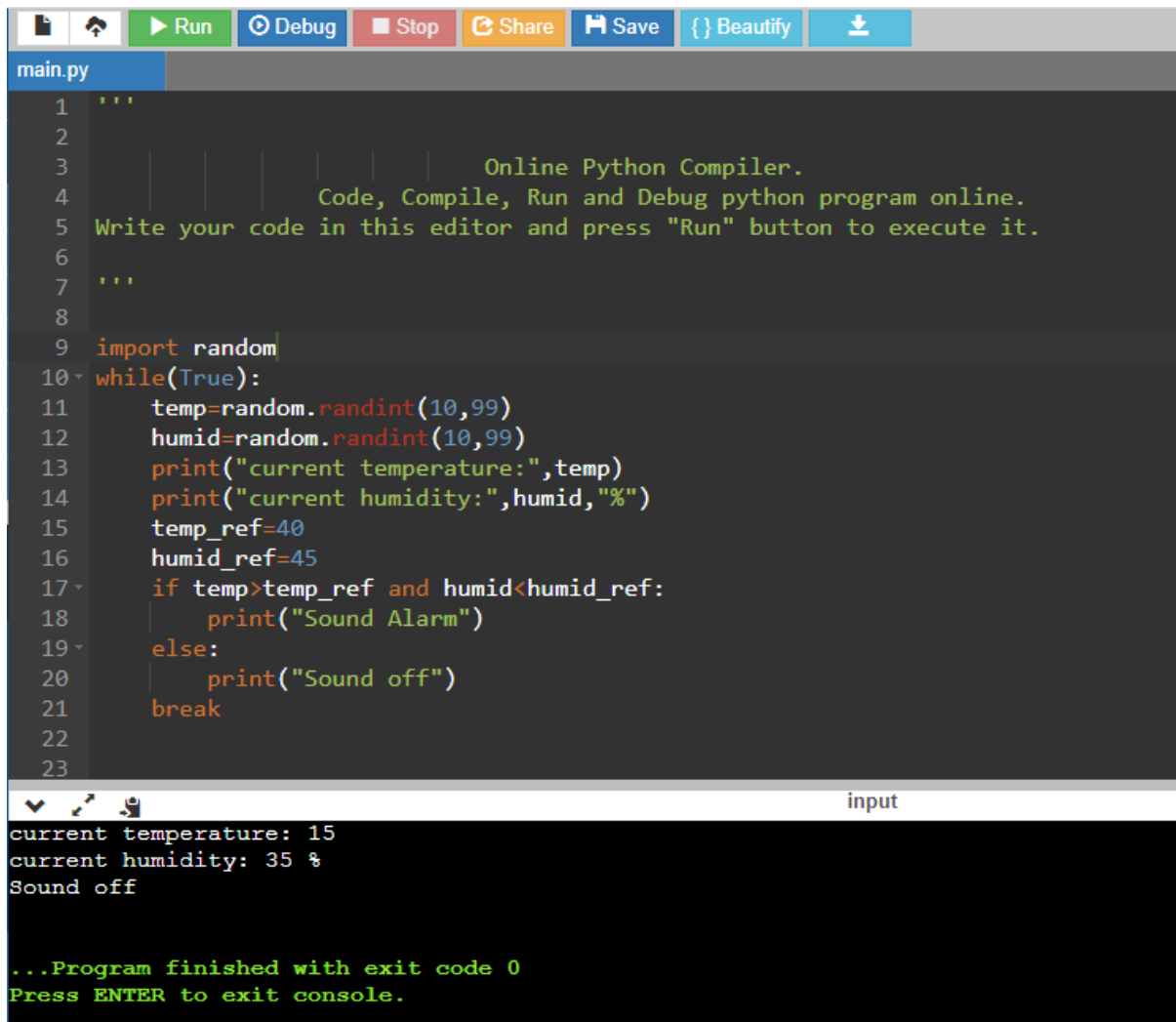
ASSIGNMENT QUESTION:

Build a python code. Assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature

CODE:

```
import random
while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid,"% ")
    temp_ref=37
    humid_ref=35
    if temp>temp_ref and humid<humid_ref:
        print("Sound Alarm")
    else:
        print("Sound off")
    break
```

OUTPUT:



The screenshot displays an online Python compiler interface. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. Below the toolbar, the file name 'main.py' is shown. The code editor contains a Python script that generates random temperature and humidity values and checks if they exceed set thresholds to trigger an alarm. The output console at the bottom shows the execution results, including the generated values and the 'Sound off' message.

```
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    while(True):
11        temp=random.randint(10,99)
12        humid=random.randint(10,99)
13        print("current temperature:",temp)
14        print("current humidity:",humid,"%")
15        temp_ref=40
16        humid_ref=45
17        if temp>temp_ref and humid<humid_ref:
18            print("Sound Alarm")
19        else:
20            print("Sound off")
21        break
22
23
```

input

```
current temperature: 15
current humidity: 35 %
Sound off

...Program finished with exit code 0
Press ENTER to exit console.
```