

IBM -NALAIYA THIRAN

INTERNET OF THINGS

BATCH : B3-3M5E

ASSIGNMENT NO : 2

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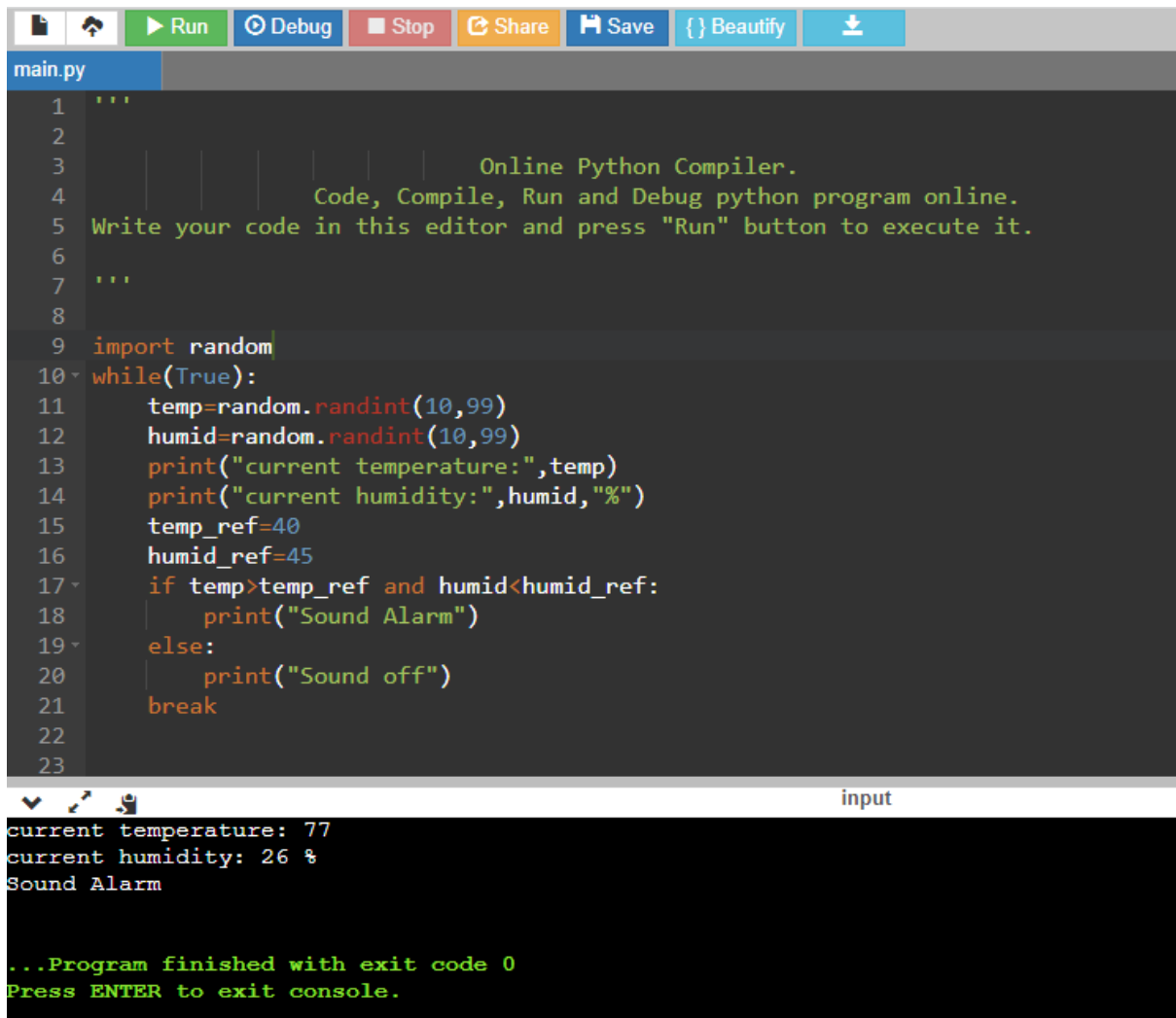
ASSIGNMENT QUESTION:

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 image shows a screenshot of 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 displayed. The code editor contains a Python script that generates random temperature and humidity values and prints them. It also includes a conditional statement to print 'Sound Alarm' if the temperature is above a reference value and humidity is below a reference value. The output console at the bottom shows the execution results, including the generated values and the 'Sound Alarm' message. The program finished with exit code 0.

```
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: 77
current humidity: 26 %
Sound Alarm

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