

SONA COLLEGE OF TECHNOLOGY

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

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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
```

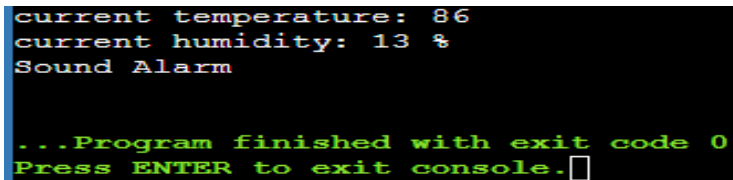
PROGRAMME:



The screenshot shows 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. The language is set to Python 3. The code is in a file named main.py. The code is a Python script that generates random temperature and humidity values and checks if they exceed or fall below set thresholds to trigger an alarm.

```
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=37
16     humid_ref=35
17     if temp>temp_ref and humid<humid_ref:
18         print("Sound Alarm")
19     else:
20         print("Sound off")
21     break
22
```

Output :



The screenshot shows the output of the program in a console window. It displays the current temperature and humidity values, followed by the message "Sound Alarm" because the temperature is above the reference value and the humidity is below the reference value. The program then finishes with exit code 0.

```
current temperature: 86
current humidity: 13 %
Sound Alarm

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