

## ASSIGNMENT 2

NAME : SRI SAKTHI G

REGISTER NUMBER : 210419104165

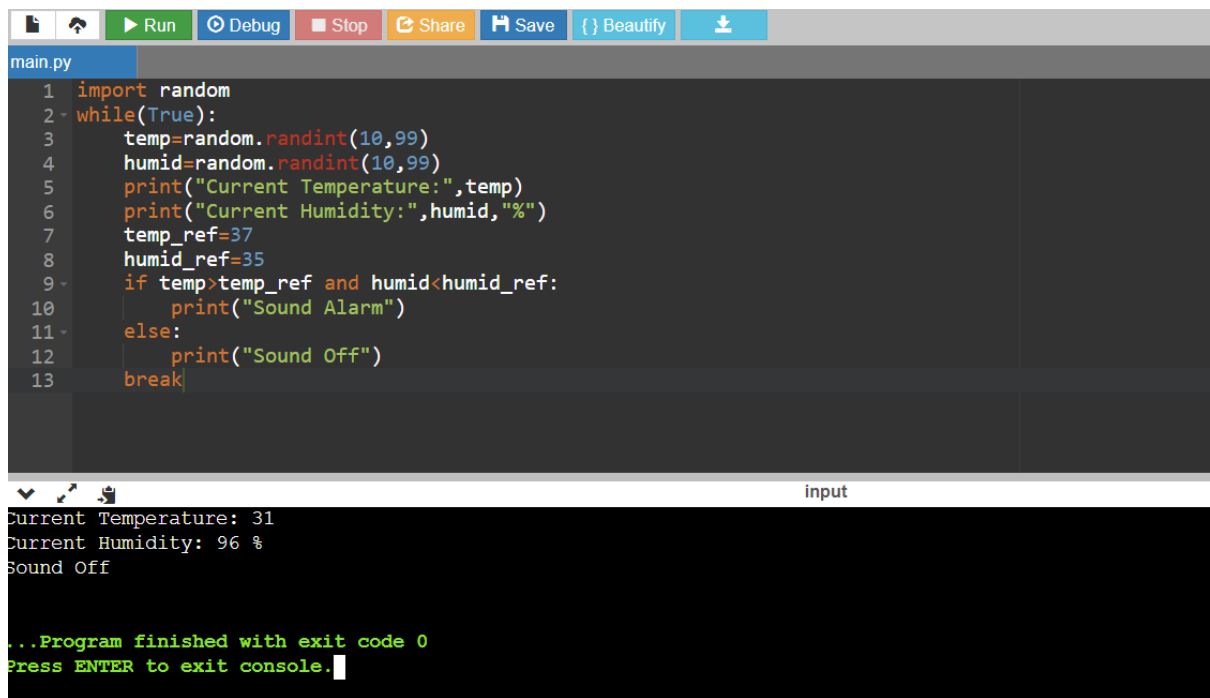
*Build a python code, assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.*

### 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
```



The image shows a code editor window with a toolbar at the top containing icons for file operations, running, debugging, stopping, sharing, saving, and beautifying code. The editor is open to a file named 'main.py'. The code is a Python script that uses the 'random' module to generate random temperature and humidity values. It includes a while loop that continues until a break statement is reached. Inside the loop, it prints the current temperature and humidity, and checks if the temperature is greater than a reference value (37) and the humidity is less than a reference value (35). If both conditions are met, it prints 'Sound Alarm', otherwise it prints 'Sound Off'.

```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     humid=random.randint(10,99)
5     print("Current Temperature:",temp)
6     print("Current Humidity:",humid,"%")
7     temp_ref=37
8     humid_ref=35
9     if temp>temp_ref and humid<humid_ref:
10         print("Sound Alarm")
11     else:
12         print("Sound Off")
13     break
```

The output of the program is displayed in a console window below the editor. It shows the current temperature as 31 and the current humidity as 96%. Since the temperature is greater than the reference value (37) and the humidity is less than the reference value (35), the program prints 'Sound Off'. The console also shows that the program finished with exit code 0 and prompts the user to press ENTER to exit the console.

input

Current Temperature: 31  
Current Humidity: 96 %  
Sound Off

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