

ASSIGNMENT 2
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Python Program
Python
Program

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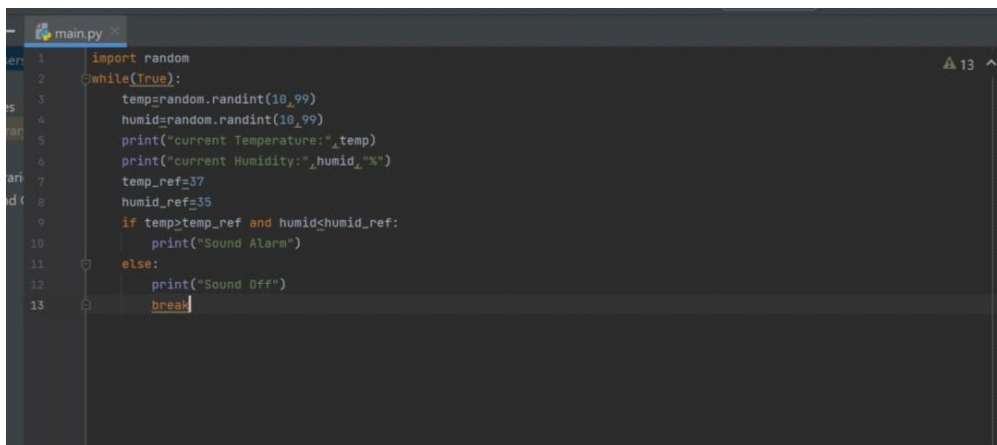
Build Python code, Generate Temperature and Humidity values (Use Random function to generate values) and write a condition to detect an alarm in case of high temperature and high Humidity.

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
```

Result:

A screenshot of a code editor window titled 'main.py'. The code is a Python script that imports the 'random' module and enters a 'while True' loop. Inside the loop, it generates random values for 'temp' and 'humid' using 'random.randint(10,99)'. It then prints these values. Below the prints, it sets reference values: 'temp_ref=37' and 'humid_ref=35'. An 'if' statement checks 'if temp>temp_ref and humid<humid_ref:'. If true, it prints 'Sound Alarm'. Otherwise, it prints 'Sound Off' and then executes a 'break' statement to exit the loop. The code is as follows:

```
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
```