

ASSIGNMENT-2

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QUESTION:

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.

PROGRAM:

```
import random
while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid,"%")
    temp_ref=46
    humid_ref=87
    if temp>temp_ref and humid<humid_ref:
        print("Sound alarm")
    else:
        print("Sound off")
    break
```

SCHEMATIC OUTPUT:

```
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=46
8     humid_ref=87
9     if temp>temp_ref and humid<humid_ref:
10         print("Sound alarm")
11     else:
12         print("Sound off")
13     break
```

Shell ×

```
>>> %Run -c $EDITOR_CONTENT
```

```
current temperature: 78
current humidity: 55 %
Sound alarm
```

```
>>>
```