

ASSIGNMENT 2

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Project Name	SmartFarmer – IoT Enabled Smart Farming Application
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QUESTION

Build a python code, Assume u 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.

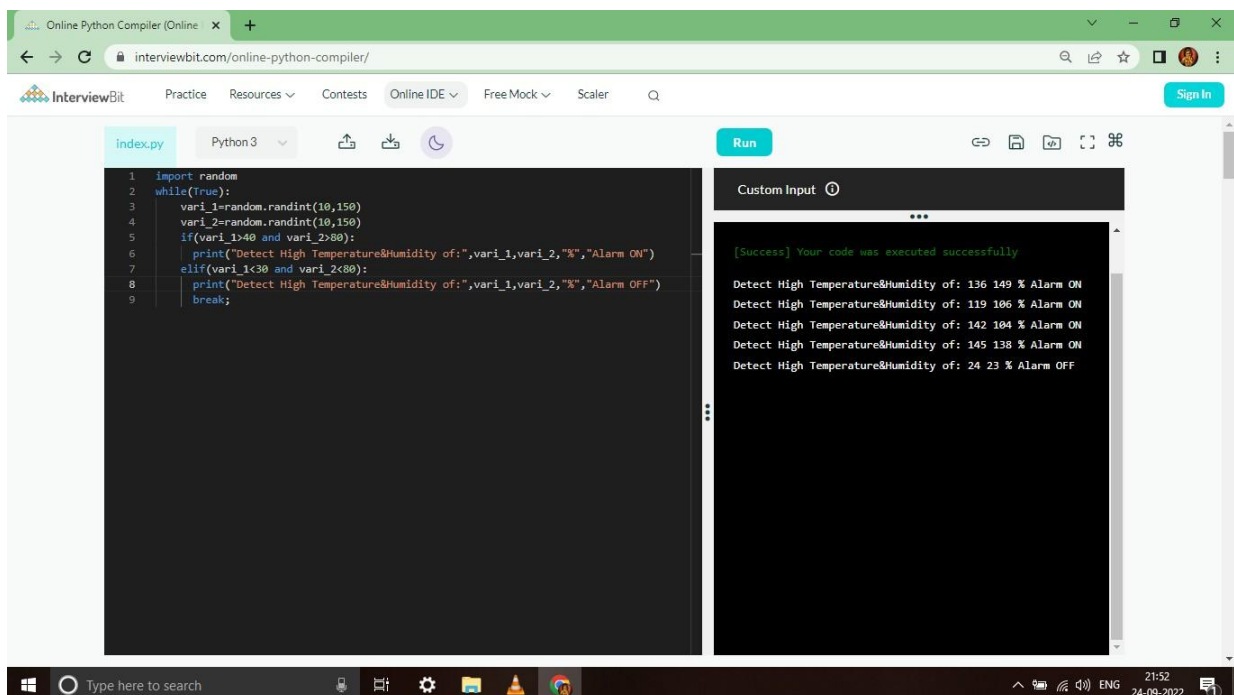
CODE

```
import random

while(True):

    vari_1=random.randint(10,150)
    vari_2=random.randint(10,150)
    if(vari_1>40 and vari_2>80):
        print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm ON")
    elif(vari_1<30 and vari_2<80):
        print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm OFF")
    break;
```

OUTPUT



The screenshot shows an online Python compiler interface. The code is written in a dark-themed editor on the left, and the output is displayed in a light-themed window on the right. The code is a while loop that generates random temperature and humidity values and prints an alarm status based on specific conditions. The output shows five iterations of the loop, with the first four triggering an 'Alarm ON' and the last one triggering an 'Alarm OFF'.

```
1 import random
2 while(True):
3     vari_1=random.randint(10,150)
4     vari_2=random.randint(10,150)
5     if(vari_1>40 and vari_2>80):
6         print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm ON")
7     elif(vari_1<30 and vari_2<80):
8         print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm OFF")
9     break;
```

Custom Input

[Success] Your code was executed successfully

Detect High Temperature&Humidity of: 136 149 % Alarm ON
Detect High Temperature&Humidity of: 119 106 % Alarm ON
Detect High Temperature&Humidity of: 142 104 % Alarm ON
Detect High Temperature&Humidity of: 145 138 % Alarm ON
Detect High Temperature&Humidity of: 24 23 % Alarm OFF