

ASSIGNMENT 2

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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):

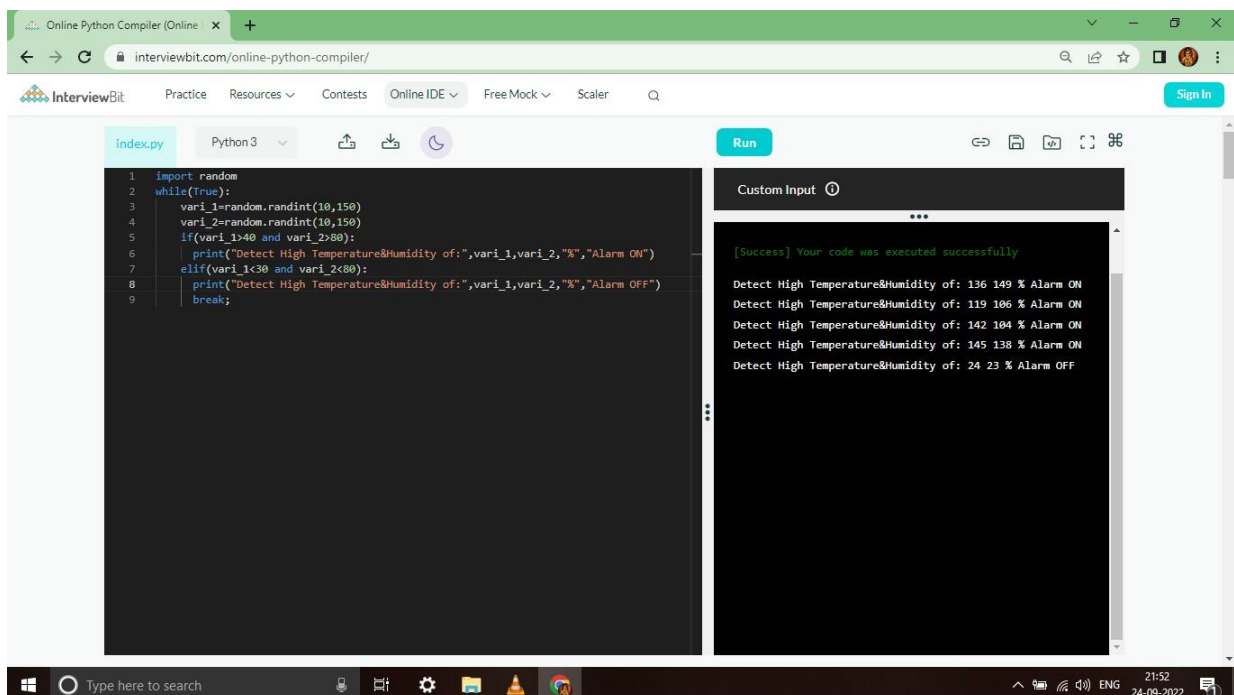
        print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm ON")

    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 a web browser window with the URL interviewbit.com/online-python-compiler/. The page displays the Python code from the previous block in a dark-themed editor. To the right of the editor is a 'Run' button and a 'Custom Input' field. Below the 'Run' button, the output of the code is displayed in a black box with green text. The output shows five lines of results, each indicating the detected temperature and humidity values and whether an alarm is ON or OFF. The first four lines show 'Alarm ON' and the fifth line shows '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