

ASSIGNMENT2

Name	DASARI THARUN TEJA
Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID22163

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
```

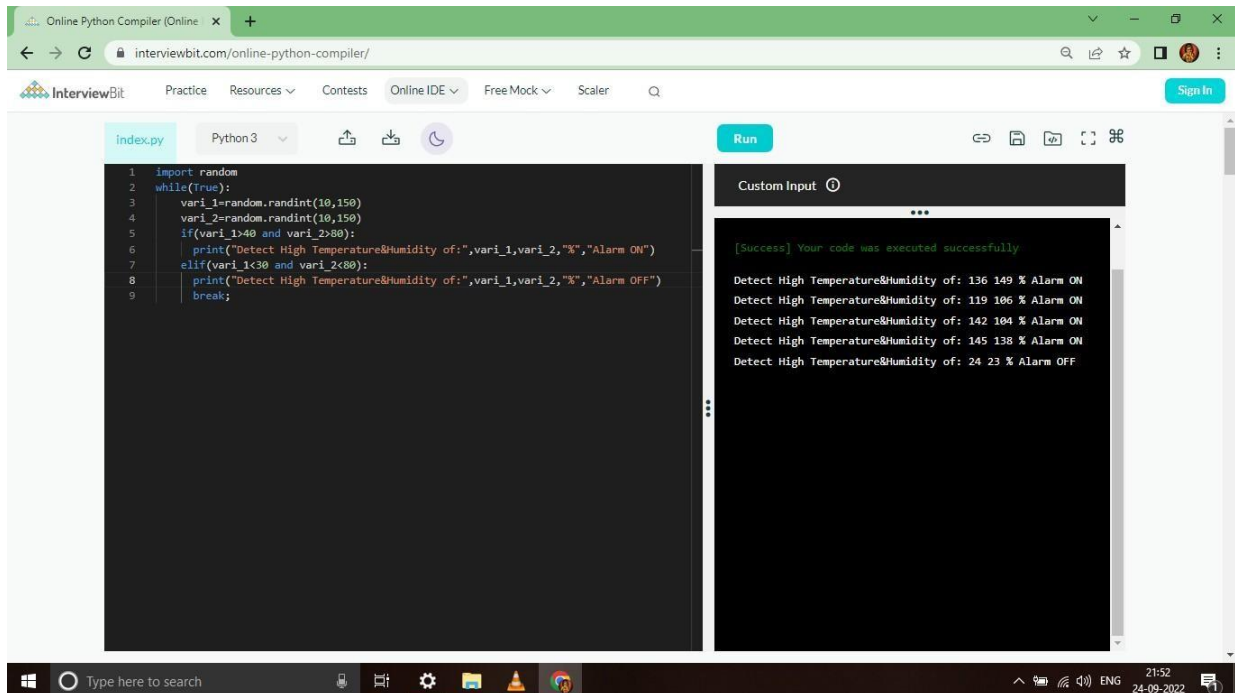
```
    of:",vari_1,vari_2,"% ","Alarm ON")
```

```
    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 on the right. The code implements a loop that generates random temperature and humidity values and checks for high temperature or low humidity to trigger an alarm.

```
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;
```

The output on the right shows the results of the code execution:

```
[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
```