

ASSIGNMENT 2

NAME : BALAJI S (TEAM MEMBER 2)

PROJECT NAME : IOT ENABLED SMART FARMING APPLICATION

TEAM ID : PNT2022TMID08320

QUESTION

Build a python code , Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to continuously detect alarm in a 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):
```

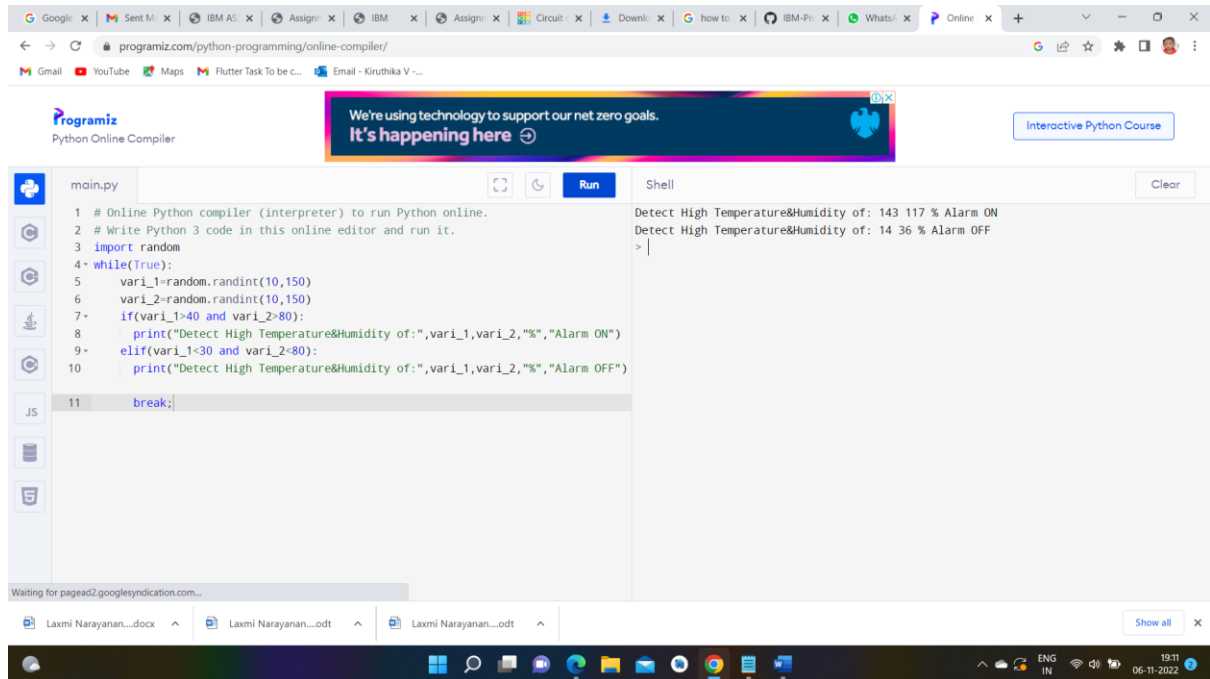
```
        print('Detect High Temperature&Humidity  
of:',vari_1,vari_2,"%","Alarm OFF")
```

```
    break;
```

OUTPUT

Detect High Temperature & Humidity of : 143 117 % Alarm ON

Detect High Temperature & Humidity of : 14 36 % Alarm OFF



The screenshot displays the Programiz Python Online Compiler interface. The code editor on the left contains a Python script named `main.py` that uses the `random` module to generate values for temperature and humidity. It includes conditional logic to print an alarm status based on these values. The 'Run' button has been clicked, and the output is visible in the 'Shell' pane on the right. The browser's address bar shows the URL `programiz.com/python-programming/online-compiler/`. The Windows taskbar at the bottom indicates the system time as 19:11 on 06-11-2022.

```
1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 while(True):
5     vari_1=random.randint(10,150)
6     vari_2=random.randint(10,150)
7     if(vari_1>40 and vari_2>80):
8         print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm ON")
9     elif(vari_1<30 and vari_2<80):
10        print("Detect High Temperature&Humidity of:",vari_1,vari_2,"%","Alarm OFF")
11        break;
```

Shell

```
Detect High Temperature&Humidity of: 143 117 % Alarm ON
Detect High Temperature&Humidity of: 14 36 % Alarm OFF
> |
```