

ASSIGNMENT 2

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**PROJECT NAME : IOT ENABLED SMART FARMING
APPLICATION**

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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;
```

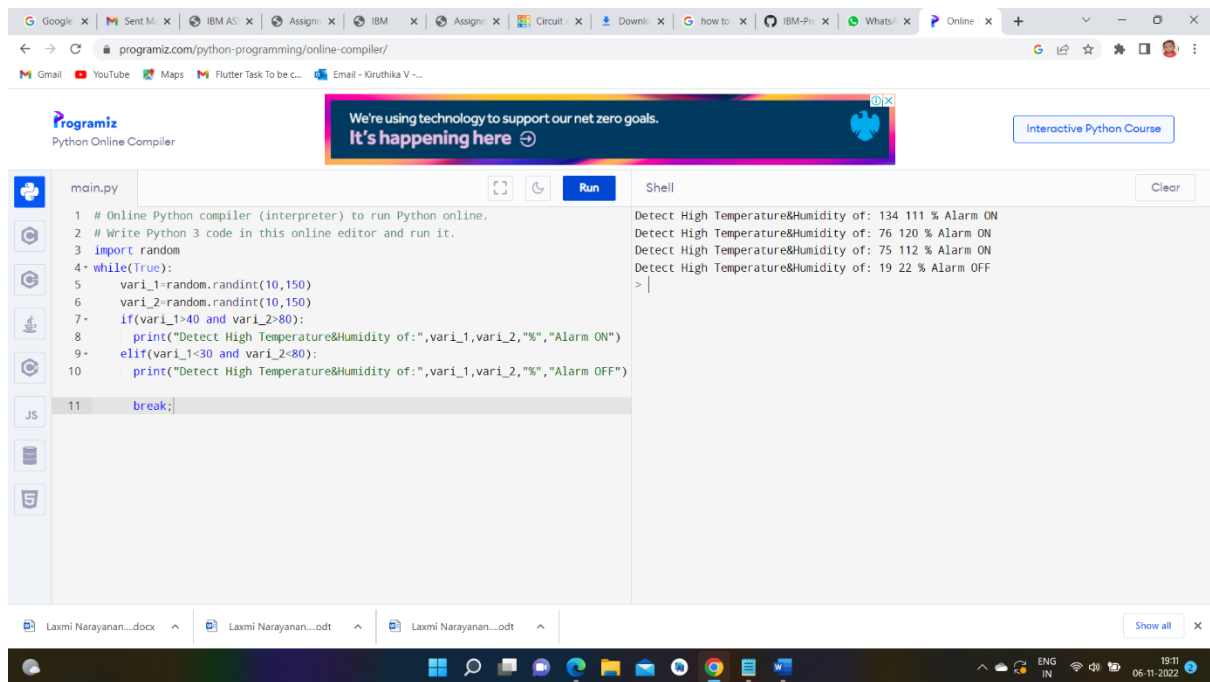
OUTPUT

Detect High Temperature & Humidity of : 134 111 % Alarm ON

Detect High Temperature & Humidity of : 76 120 % Alarm ON

Detect High Temperature & Humidity of : 75 112 % Alarm ON

Detect High Temperature & Humidity of : 19 22 % Alarm OFF



The screenshot displays the Programiz Python Online Compiler interface. The code editor on the left contains a Python script that uses random values to simulate temperature and humidity readings. The script is as follows:

```
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;
```

The output window on the right shows the results of the script's execution:

```
Detect High Temperature&Humidity of: 134 111 % Alarm ON
Detect High Temperature&Humidity of: 76 120 % Alarm ON
Detect High Temperature&Humidity of: 75 112 % Alarm ON
Detect High Temperature&Humidity of: 19 22 % Alarm OFF
>
```

The browser's taskbar at the bottom indicates the system date and time as 06-11-2022, 19:11.