

ASSIGNMENT-2

Date	02 OCTOBER 2022
Team ID	PNT2022TMID19800
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Student name	Mohanahariharan V
Roll number	727819TUIT053

Build a python code ,Assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

CODING:

```
import random

from time import sleep

#btn=Pin(4,Pin.IN)

while True:

    temp = random.randint(1,100)

    print("current temp=",temp)
```

```
humid = random.randint(1,100)
```

```
print("current humid=",humid)
```

```
if(temp>=50 and humid<35):
```

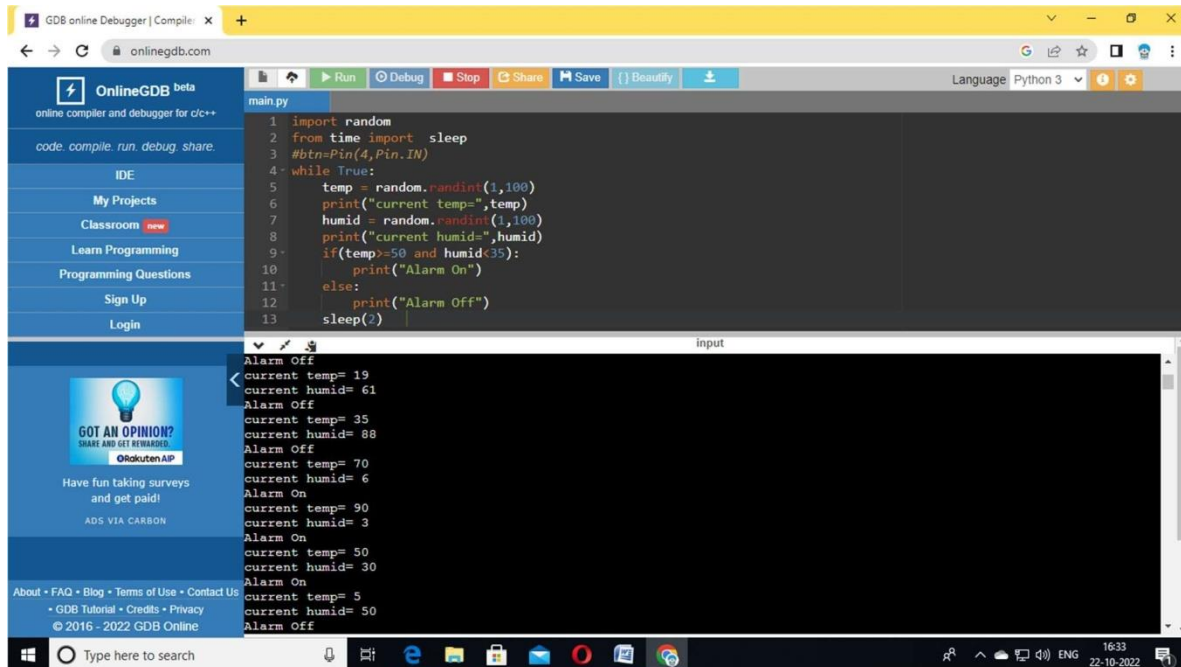
```
    print("Alarm On")
```

```
else:
```

```
    print("Alarm Off")
```

```
sleep(2)
```

Output:



The screenshot shows the OnlineGDB web interface. The top navigation bar includes links for Run, Debug, Stop, Share, Save, and Beautify. The left sidebar contains links for IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, and Login. The main editor displays a Python script named 'main.py' with the following code:

```
1 import random
2 from time import sleep
3 #btn=Pin(4,Pin.IN)
4 while True:
5     temp = random.randint(1,100)
6     print("current temp=",temp)
7     humid = random.randint(1,100)
8     print("current humid=",humid)
9     if(temp>=50 and humid<35):
10         print("Alarm On")
11     else:
12         print("Alarm Off")
13     sleep(2)
```

The output window at the bottom shows the execution results:

```
Alarm Off
current temp= 19
current humid= 61
Alarm Off
current temp= 35
current humid= 88
Alarm Off
current temp= 70
current humid= 6
Alarm On
current temp= 90
current humid= 3
Alarm On
current temp= 50
current humid= 30
Alarm On
current temp= 5
current humid= 50
Alarm Off
```

The bottom of the image shows the Windows taskbar with the search bar and system tray icons.

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onlinegdb.com

OnlineGDB beta
online compiler and debugger for c/c++
code. compile. run. debug. share.

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```
main.py
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2 from time import sleep
3 #btn=Pin(4,Pin.IN)
4 while True:
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6     print("current temp=",temp)
7     humid = random.randint(1,100)
8     print("current humid=",humid)
9     if(temp>=50 and humid<35):
10         print("Alarm On")
11     else:
12         print("Alarm Off")
13     sleep(2)
```

input

```
current humid= 30
Alarm On
current temp= 5
current humid= 50
Alarm Off
current temp= 78
current humid= 64
Alarm Off
current temp= 52
current humid= 94
Alarm Off
current temp= 74
current humid= 85
Alarm Off
current temp= 25
current humid= 59
Alarm Off
current temp= 10
current humid= 96
```

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9     if(temp>=50 and humid<35):
10         print("Alarm On")
11     else:
12         print("Alarm Off")
13     sleep(2)
```

input

```
Alarm Off
current temp= 60
current humid= 15
Alarm On
current temp= 70
current humid= 39
Alarm Off
current temp= 32
current humid= 9
Alarm Off
current temp= 48
current humid= 88
Alarm Off
current temp= 23
current humid= 66
Alarm Off
current temp= 53
current humid= 48
Alarm Off
```

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