

## ASSIGNMENT-2

Date	02 OCTOBER 2022
Team ID	PNT2022TMID47521
Project Name	IOT based smart crop protection system for agriculture
Student name	S.Muthunanthini
Roll number	910419104012

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):
```

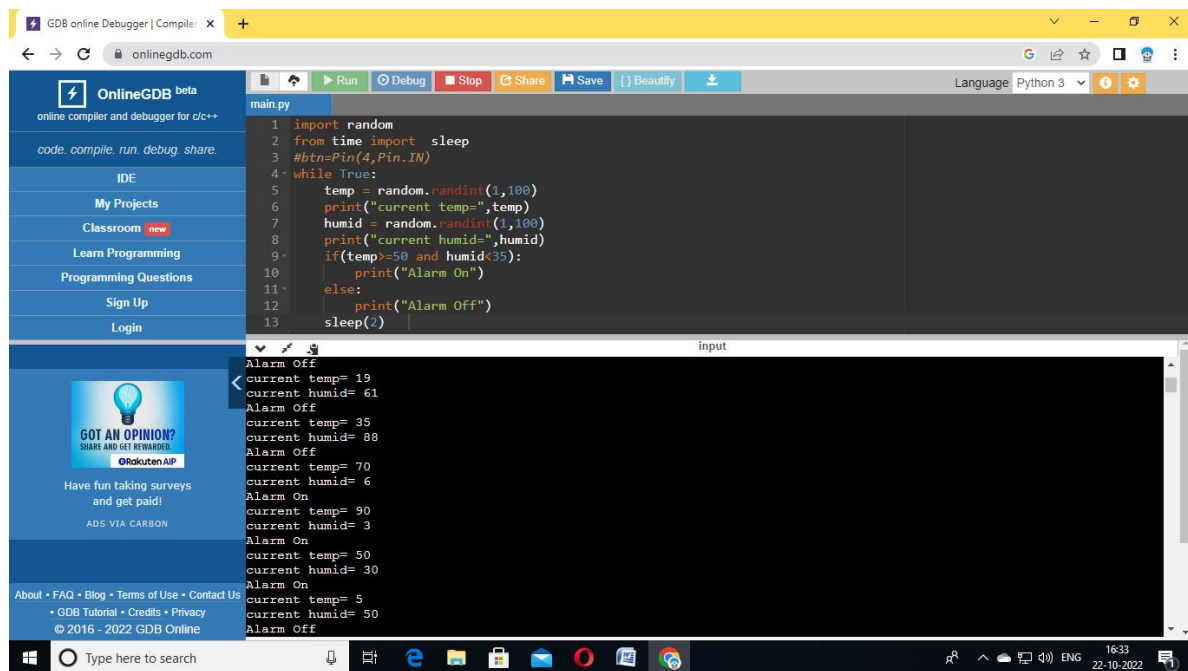
```
    print("Alarm On")
```

```
else:
```

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

```
sleep(2)
```

## Output:



The screenshot shows the OnlineGDB web interface. The top navigation bar includes links for IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, and Login. The main editor area 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 interface also includes a sidebar with a 'GOT AN OPINION?' survey by Okakuten AIP and a footer with links for About, FAQ, Blog, Terms of Use, Contact Us, GDB Tutorial, Credits, Privacy, and copyright information for 2016-2022 GDB Online.

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```
main.py
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)
```

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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