

ASSIGNMENT-2

Date	02 OCTOBER 2022
Team ID	PNT2022TMID19800
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Student name	DHINAKARAN S
Roll number	727819TUIT011

Build a python code ,Assume u get temperature and humidity values and write a condition to continuously detect alram 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):
```

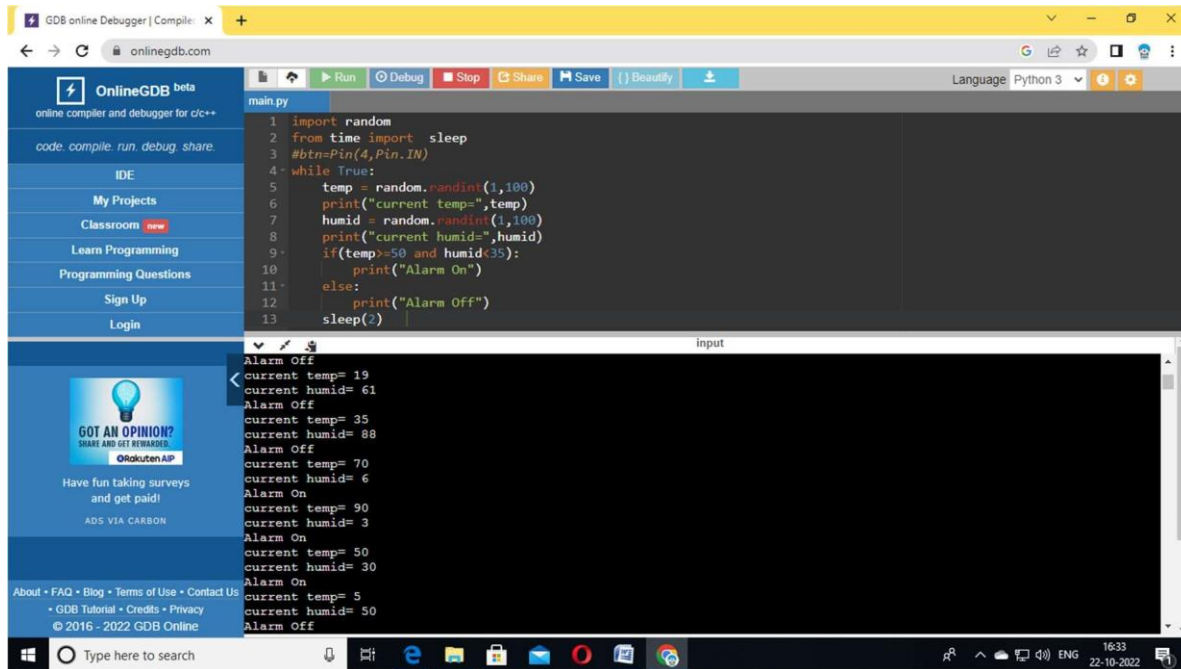
```
    print("Alarm On")
```

```
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 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 bottom of the image shows a Windows taskbar with the search bar and various application icons. The system clock indicates the time is 16:33 on 22-10-2022.

GDB online Debugger | Compiler: X

onlinegdb.com

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

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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
```

16:33 22-10-2022

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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
```

16:33 22-10-2022