

## ASSIGNMENT-2

Date	02 OCTOBER 2022
Team ID	PNT2022TMID47521
Project Name	IOT based smart crop protection system for agriculture
Student name	K.Maheswari
Roll number	910419104009

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):
```

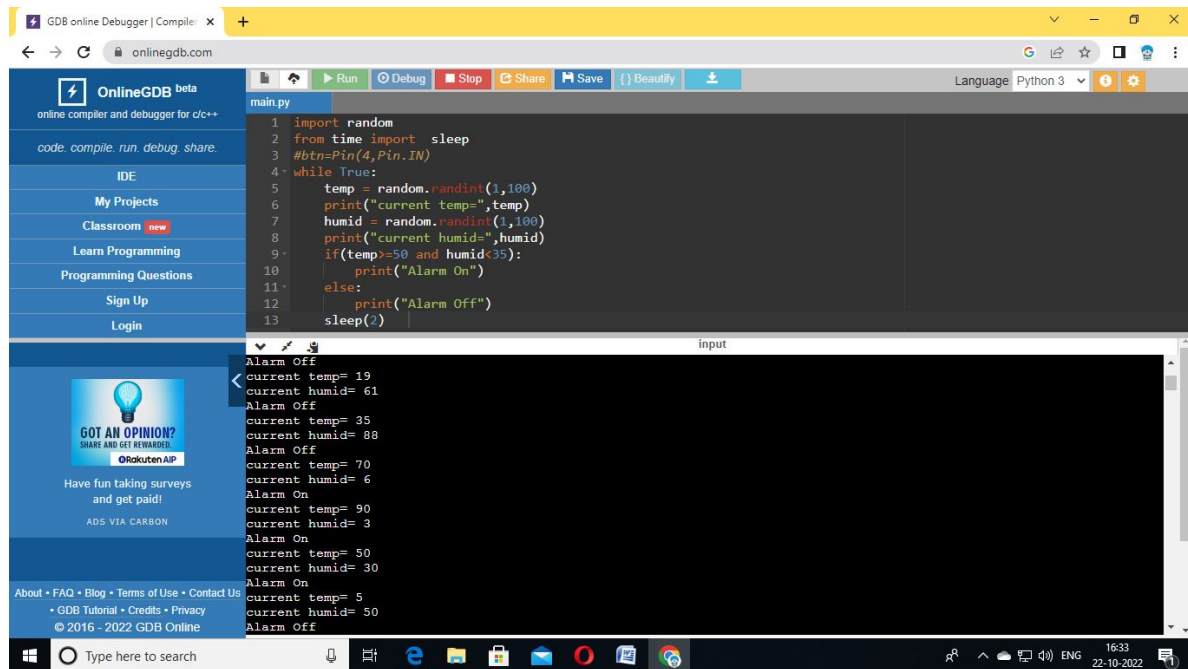
```
    print("Alarm On")
```

```
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, alternating between 'Alarm Off' and 'Alarm On' based on the random values of temperature and humidity. The output is as follows:

```
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 various application icons.

GDB online Debugger | Compiler: X +

onlinegdb.com

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

IDE  
My Projects  
Classroom new  
Learn Programming  
Programming Questions  
Sign Up  
Login

```
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
```

GOT AN OPINION?  
SHARE AND GET REWARDED.  
ORakuten AIP  
Have fun taking surveys  
and get paid!  
ADS VIA CARBON

About • FAQ • Blog • Terms of Use • Contact Us  
• GDB Tutorial • Credits • Privacy  
© 2016 - 2022 GDB Online

Type here to search

16:33  
22-10-2022

GDB online Debugger | Compiler: X +

onlinegdb.com

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

IDE  
My Projects  
Classroom new  
Learn Programming  
Programming Questions  
Sign Up  
Login

```
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

```
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
```

GOT AN OPINION?  
SHARE AND GET REWARDED.  
ORakuten AIP  
Have fun taking surveys  
and get paid!  
ADS VIA CARBON

About • FAQ • Blog • Terms of Use • Contact Us  
• GDB Tutorial • Credits • Privacy  
© 2016 - 2022 GDB Online

Type here to search

16:33  
22-10-2022