

Problem Statement:

## IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

Domain:

Internet of Things

By,

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## IOT ASSIGNMENT 2

**TOPIC:** Assignment on temperature and humidity sensing and alarm automation using python

**CODE:**

```
import random

i=5

while(True):

    a=random.randint(10,100)

    b=random.randint(10,100)

    if(a>35 and b<65):

        print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS ON")

    elif(a<35 and b>65):

        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS OFF")

    if(i<55):

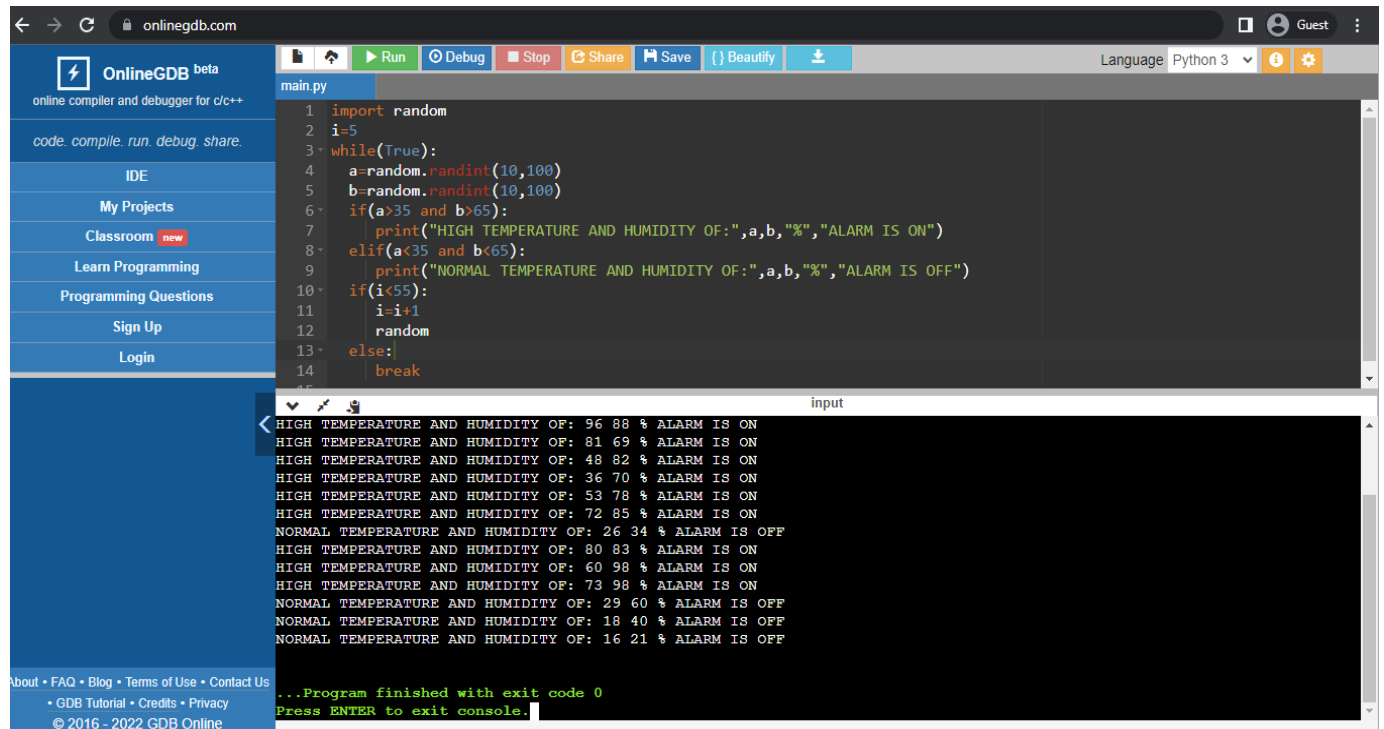
        i=i+1

        random

    else:

        break
```

# Output:



The screenshot displays the OnlineGDB web interface. On the left is a sidebar with navigation links: OnlineGDB beta, code, compile, run, debug, share, IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. The top bar includes a browser address bar with 'onlinegdb.com', a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify, and a language dropdown set to 'Python 3'. The main editor area shows a file named 'main.py' with the following Python code:

```
1 import random
2 i=5
3 while(True):
4     a=random.randint(10,100)
5     b=random.randint(10,100)
6     if(a>35 and b>65):
7         print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS ON")
8     elif(a<35 and b<65):
9         print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS OFF")
10    if(i<55):
11        i=i+1
12        random
13    else:
14        break
```

Below the editor is a console window with the label 'input' on the right. It shows the program's output:

```
HIGH TEMPERATURE AND HUMIDITY OF: 96 88 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 81 69 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 48 82 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 36 70 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 53 78 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 72 85 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 26 34 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 80 83 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 60 98 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 73 98 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 29 60 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 18 40 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 16 21 % ALARM IS OFF
```

At the bottom of the console, it says: "...Program finished with exit code 0" and "Press ENTER to exit console." The footer of the page contains links for About, FAQ, Blog, Terms of Use, and Contact Us, along with GDB Tutorial, Credits, Privacy, and a copyright notice for 2016-2022 GDB Online.

