

ASSIGNMENT 2

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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):

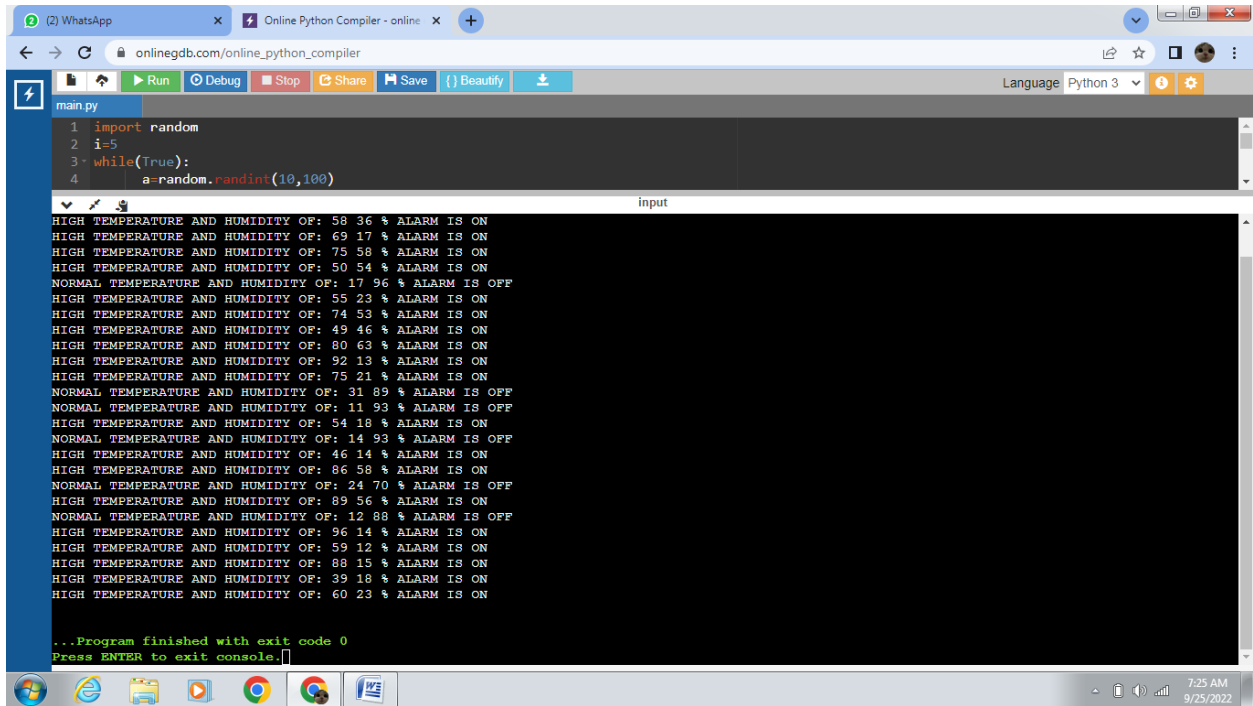
        i=i+1

        random

    else:

        break
```

Output:



The screenshot shows a web browser window with the URL `onlinegdb.com/online_python_compiler`. The browser has tabs for WhatsApp and the Online Python Compiler. The compiler interface includes a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The code editor shows a Python script named `main.py` with the following code:

```
1 import random
2 i=5
3 while(True):
4     a=random.randint(10,100)
```

The output window displays the results of the program, showing a series of lines representing temperature and humidity data, along with the alarm status. The output is as follows:

```
HIGH TEMPERATURE AND HUMIDITY OF: 58 36 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 69 17 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 75 58 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 50 54 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 17 96 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 55 23 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 74 53 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 49 46 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 80 63 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 92 13 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 75 21 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 31 89 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 11 93 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 54 18 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 14 93 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 46 14 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 86 58 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 24 70 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 89 56 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 12 88 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 96 14 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 59 12 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 88 15 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 39 18 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 60 23 % ALARM IS ON
```

The program finished with exit code 0. The console prompt is `Press ENTER to exit console.`