

IBM ASSIGNMENT 2

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

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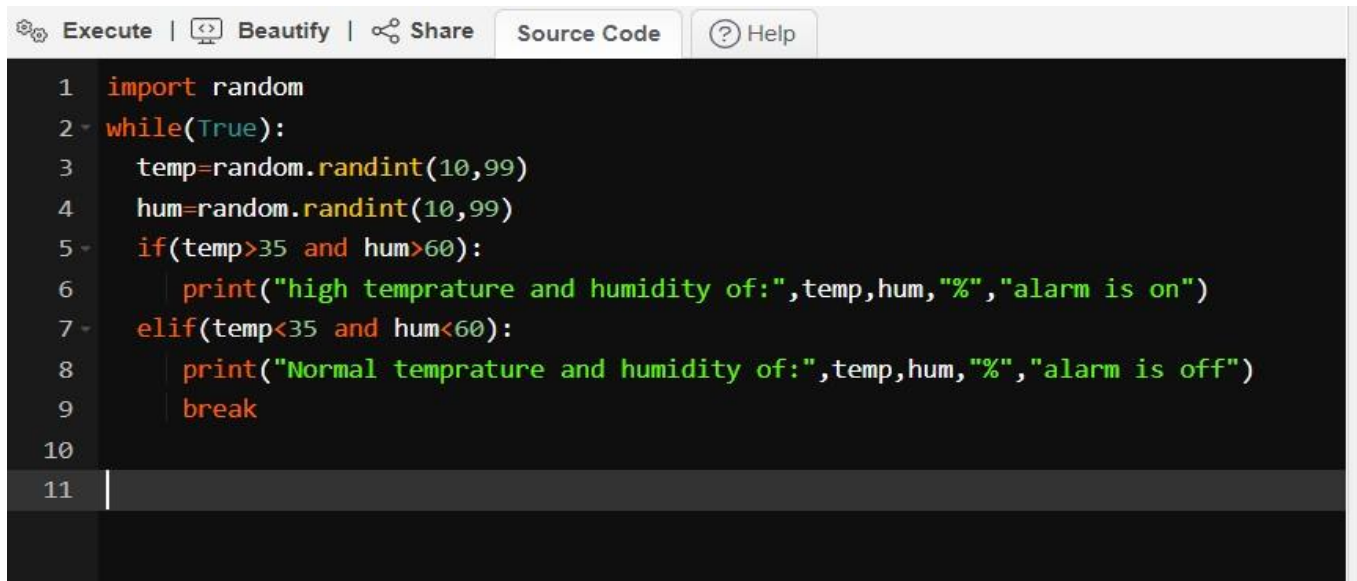
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SOURCE CODE:

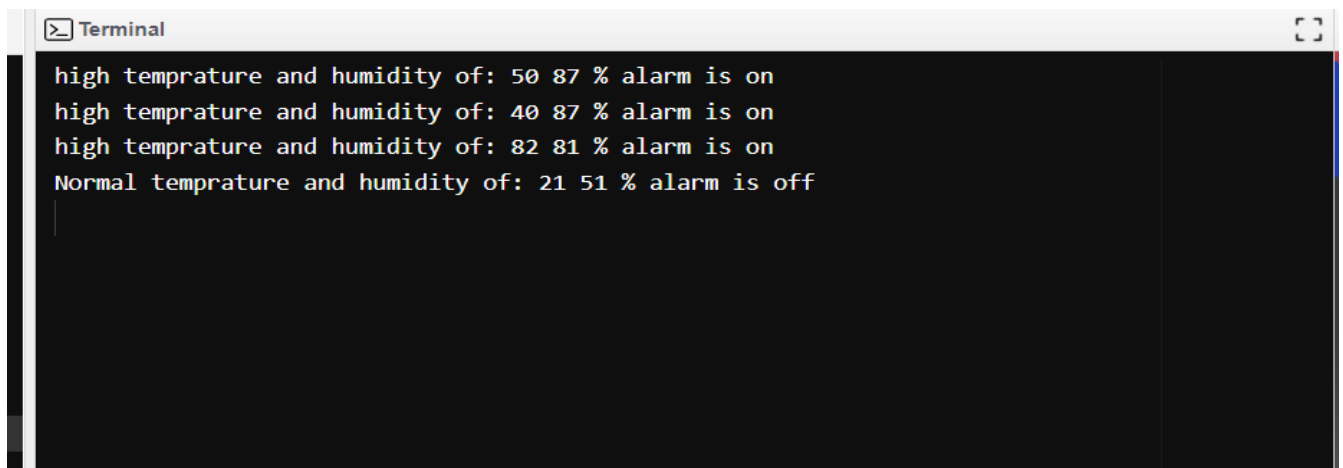
```
import random
while(True):
    temp=random.randint(10,99)
    hum=random.randint(10,99)
    if(temp>35 and hum>60):
        print("high temprature and humidity of:",temp,hum,"% ","alarm is on")
    elif(temp<35 and hum<60):
        print("Normal temprature and humidity of:",temp,hum,"% ","alarm is off")
    break
```

OUTPUT:



The screenshot shows a code editor with a dark background. At the top, there is a toolbar with icons for 'Execute', 'Beautify', 'Share', 'Source Code', and 'Help'. Below the toolbar, the code is displayed with line numbers from 1 to 11. The code is a Python script that imports the 'random' module and enters a 'while' loop that runs indefinitely. Inside the loop, it generates random temperature and humidity values. If both are high, it prints 'alarm is on'; otherwise, it prints 'alarm is off' and breaks the loop.

```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     hum=random.randint(10,99)
5     if(temp>35 and hum>60):
6         print("high temprature and humidity of:",temp,hum,"%","alarm is on")
7     elif(temp<35 and hum<60):
8         print("Normal temprature and humidity of:",temp,hum,"%","alarm is off")
9         break
10
11
```



The screenshot shows a terminal window with a dark background. The title bar says 'Terminal'. The output of the Python code is displayed as four lines of text, each on a new line. The first three lines show 'alarm is on' for high temperature and humidity, and the fourth line shows 'alarm is off' for normal temperature and humidity.

```
high temprature and humidity of: 50 87 % alarm is on
high temprature and humidity of: 40 87 % alarm is on
high temprature and humidity of: 82 81 % alarm is on
Normal temprature and humidity of: 21 51 % alarm is off
```