

# **IBM ASSIGNMENT 2**

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

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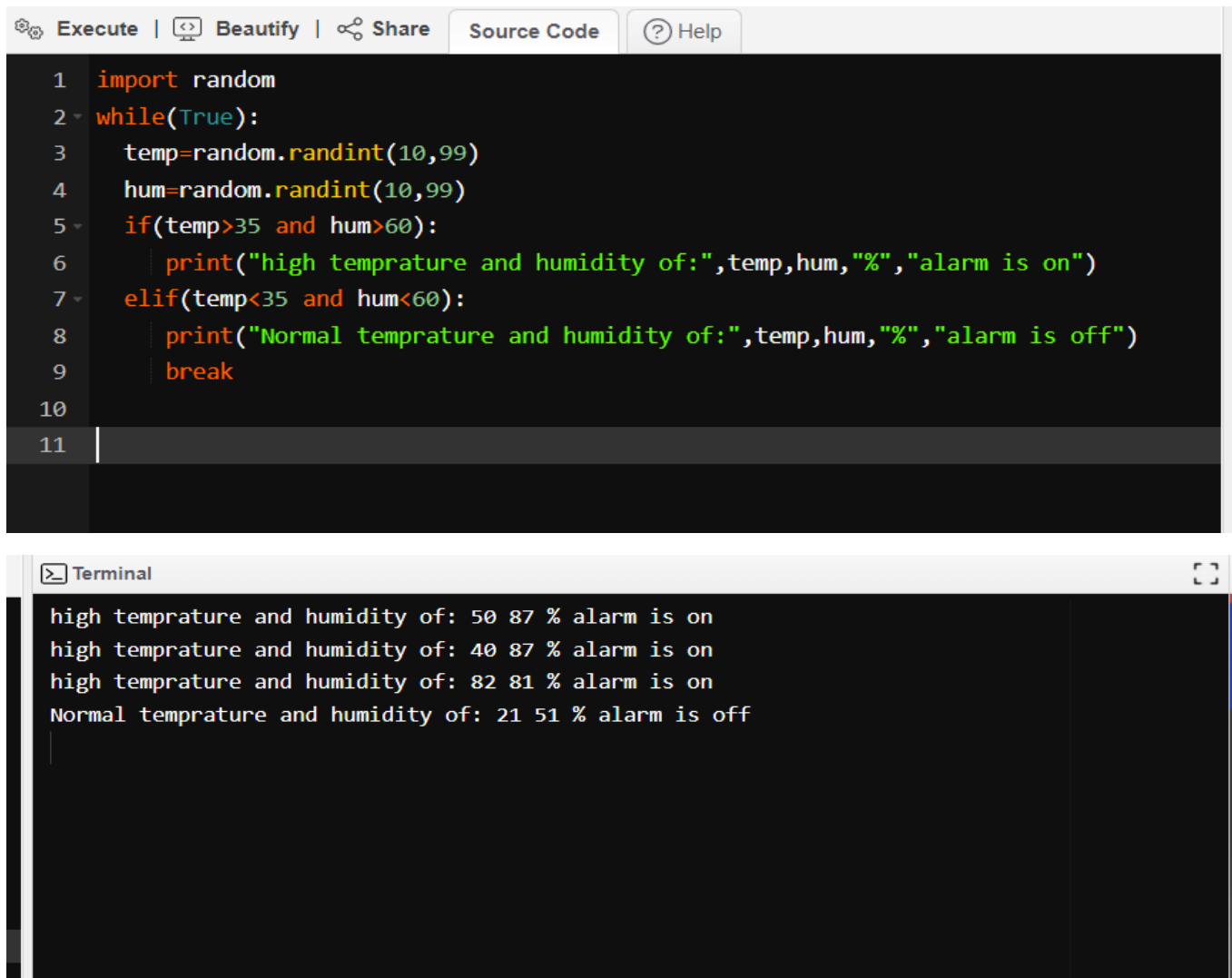
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## **SOURCE CODE:**

```
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 image shows a code editor window with a dark background and a terminal window below it. The code editor has tabs for 'Execute', 'Beautify', 'Share', 'Source Code', and 'Help'. 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 using 'random.randint(10,99)'. It then checks if the temperature is greater than 35 and humidity is greater than 60. If true, it prints 'high temprature and humidity of: [temp] [hum] % alarm is on'. If false, it prints 'Normal temprature and humidity of: [temp] [hum] % alarm is off' and breaks the loop. The terminal window shows the output of the program, displaying four lines of text corresponding to the printed statements in the code.

```
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
```

Terminal

```
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
```