

**Assignment -2**  
Python Programming

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

**Question-1:**

Build a python code, Assume you get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

**Code:**

```
import random while(True):
a=random.randint(10,99)

b=random.randint(10,99)

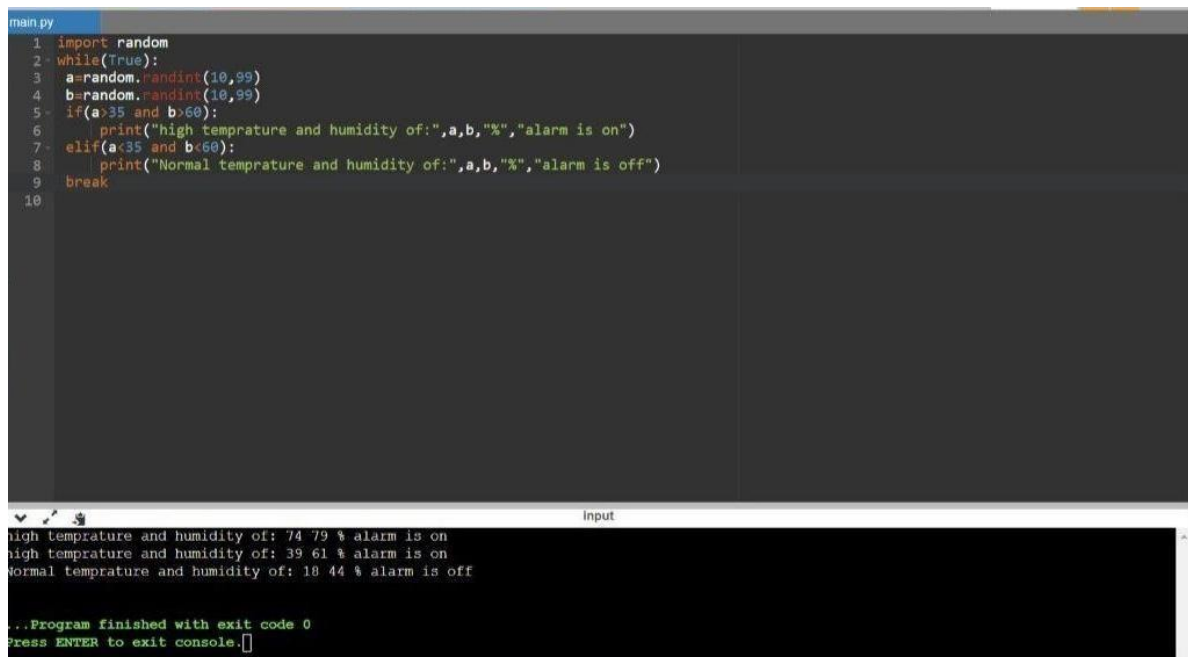
    if(a>35 and b>60):

        print("high temperature and humidity of:",a,b,"%","alarm is on")
    elif(a<35 and b<60):

        print("Normal temprature and humidity of:",a,b,"%","alarm is off")

    break
```

**Output:**

The image shows a screenshot of a Python IDE. The top pane displays the code for 'main.py', which is a while loop that generates random temperature (a) and humidity (b) values. It checks if a > 35 and b > 60 to print 'alarm is on', or if a < 35 and b < 60 to print 'alarm is off', and then breaks the loop. The bottom pane shows the program's output, which matches the code logic, displaying three lines of output before the program finishes with exit code 0.

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

high temprature and humidity of: 74 79 % alarm is on  
high temprature and humidity of: 39 61 % alarm is on  
Normal temprature and humidity of: 18 44 % alarm is off

...Program finished with exit code 0  
Press ENTER to exit console.