

ASSIGNMENT-2

Python Programming

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

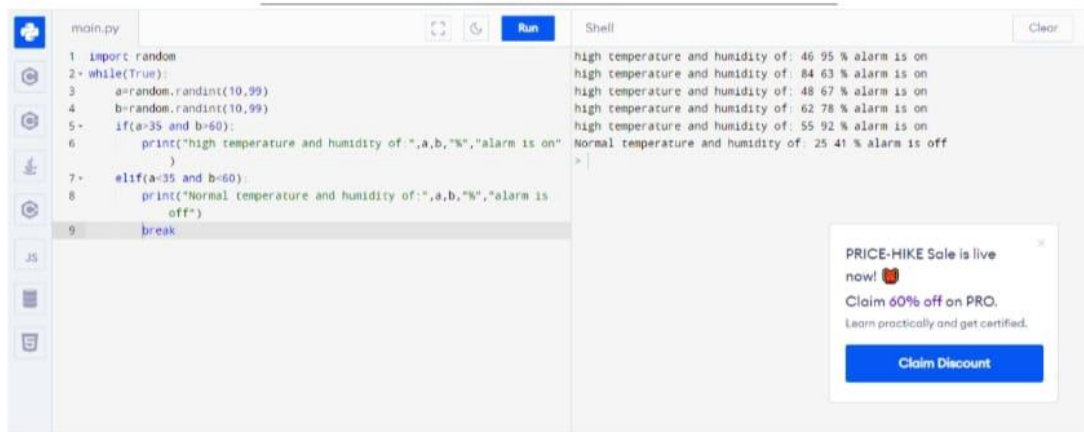
Question:

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
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 temperature and humidity of:",a,b,"%", "alarm is off")
    break
```

Output:



The screenshot shows a code editor with a file named `main.py`. The code is a Python script that generates random temperature and humidity values and prints an alarm status based on those values. The script is as follows:

```
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             )
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of :",a,b,"%","alarm is
10            off")
11     break
```

The output of the script, displayed in the Shell window, shows five iterations of the loop:

```
high temperature and humidity of: 46 95 % alarm is on
high temperature and humidity of: 84 63 % alarm is on
high temperature and humidity of: 48 67 % alarm is on
high temperature and humidity of: 62 78 % alarm is on
high temperature and humidity of: 55 92 % alarm is on
Normal temperature and humidity of: 25 41 % alarm is off
>
```

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