

**ASSIGNMENT -2**

Assignment Date	25 September 2022
Student Name	Mr. Surya.G
Student Roll Number	411619104028
Maximum Marks	2 Marks

**QUESTION:**

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

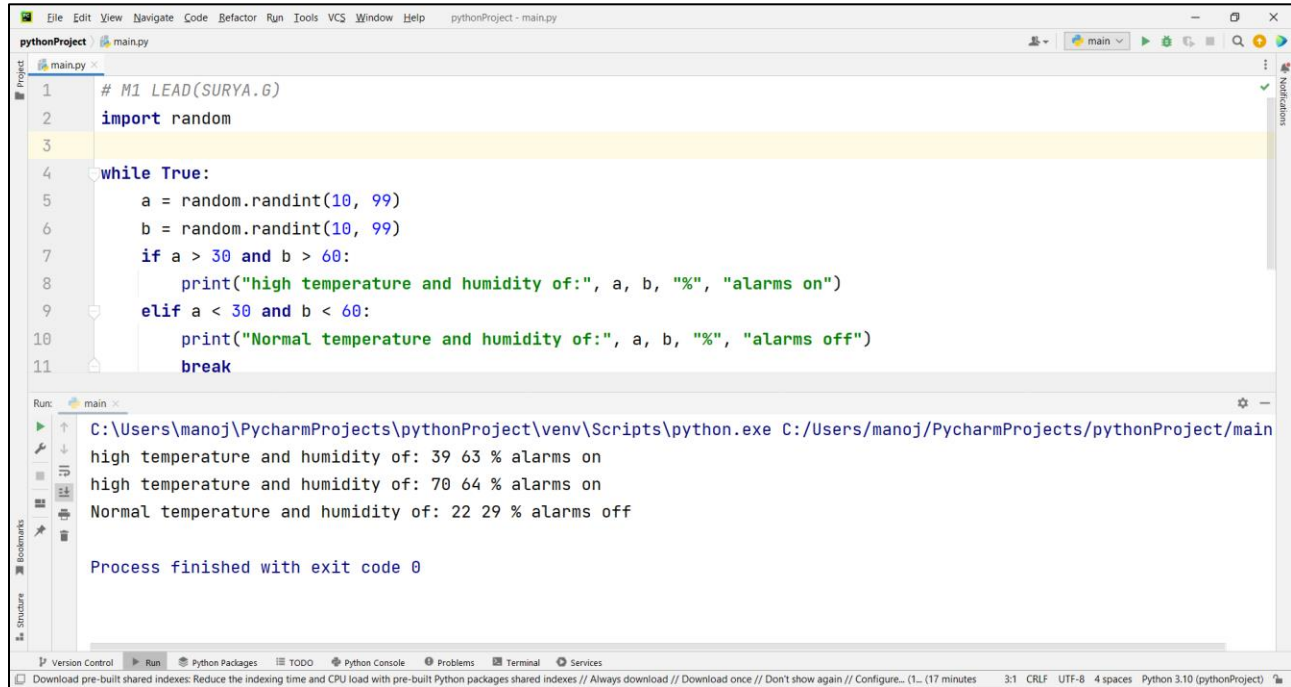
**SOLUTION:**

```
import random

while True:
    a = random.randint(10, 99)
    b = random.randint(10, 99)
    if a > 30 and b > 65:
        print("high temperature and humidity of:", a,
b, "%", "alarms on")
    elif a < 34 and b < 60:
        print("Normal temperature and humidity of:",
a, b, "%", "alarms off")
        break
```

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**OUTPUT:**



The screenshot displays the PyCharm IDE interface. The top pane shows a Python script named `main.py` with the following code:

```
1 # M1 LEAD(SURYA.G)
2 import random
3
4 while True:
5     a = random.randint(10, 99)
6     b = random.randint(10, 99)
7     if a > 30 and b > 60:
8         print("high temperature and humidity of:", a, b, "%", "alarms on")
9     elif a < 30 and b < 60:
10        print("Normal temperature and humidity of:", a, b, "%", "alarms off")
11        break
```

The bottom pane shows the output of the program's execution:

```
Run: C:\Users\manoj\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/manoj/PycharmProjects/pythonProject/main
high temperature and humidity of: 39 63 % alarms on
high temperature and humidity of: 70 64 % alarms on
Normal temperature and humidity of: 22 29 % alarms off

Process finished with exit code 0
```

**FIGURE 1: PYTHON CODE, TO GET TEMPERATURE AND HUMIDITY VALUES.**