

ASSIGNMENT -2

Assignment Date	25 September 2022
Student Name	Mr. Manoj Kumar.S
Student Roll Number	411619104015
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..

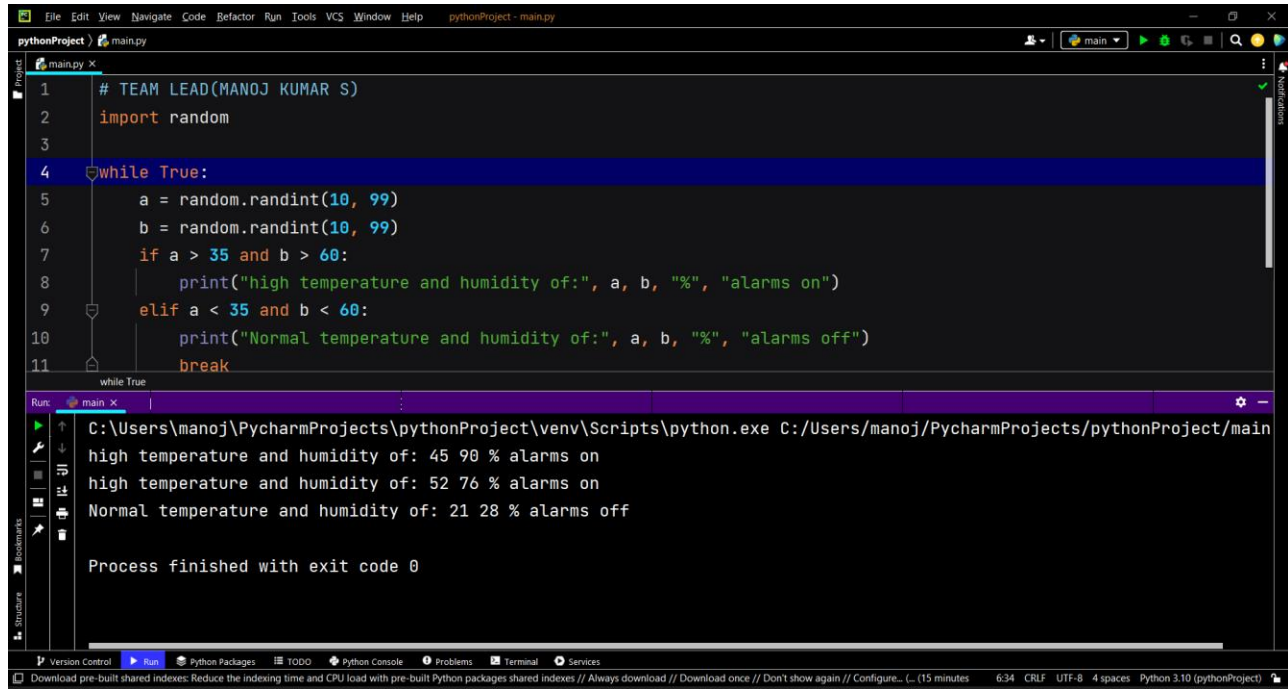
SOLUTION:

```
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 main editor window shows a Python script named `main.py` with the following code:

```
1 # TEAM LEAD(MANOJ KUMAR S)
2 import random
3
4 while True:
5     a = random.randint(10, 99)
6     b = random.randint(10, 99)
7     if a > 35 and b > 60:
8         print("high temperature and humidity of:", a, b, "%", "alarms on")
9     elif a < 35 and b < 60:
10        print("Normal temperature and humidity of:", a, b, "%", "alarms off")
11        break
```

The Run tool window at the bottom shows the execution output:

```
C:\Users\manoj\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/manoj/PycharmProjects/pythonProject/main
high temperature and humidity of: 45 90 % alarms on
high temperature and humidity of: 52 76 % alarms on
Normal temperature and humidity of: 21 28 % alarms off

Process finished with exit code 0
```

The status bar at the bottom indicates the file encoding is UTF-8, the line ending is CRLF, and the Python interpreter is Python 3.10 (pythonProject).

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