

ASSIGNMENT -2

Assignment Date	25 September 2022
Student Name	Mr. Surendar.K
Student Roll Number	411619104026
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..

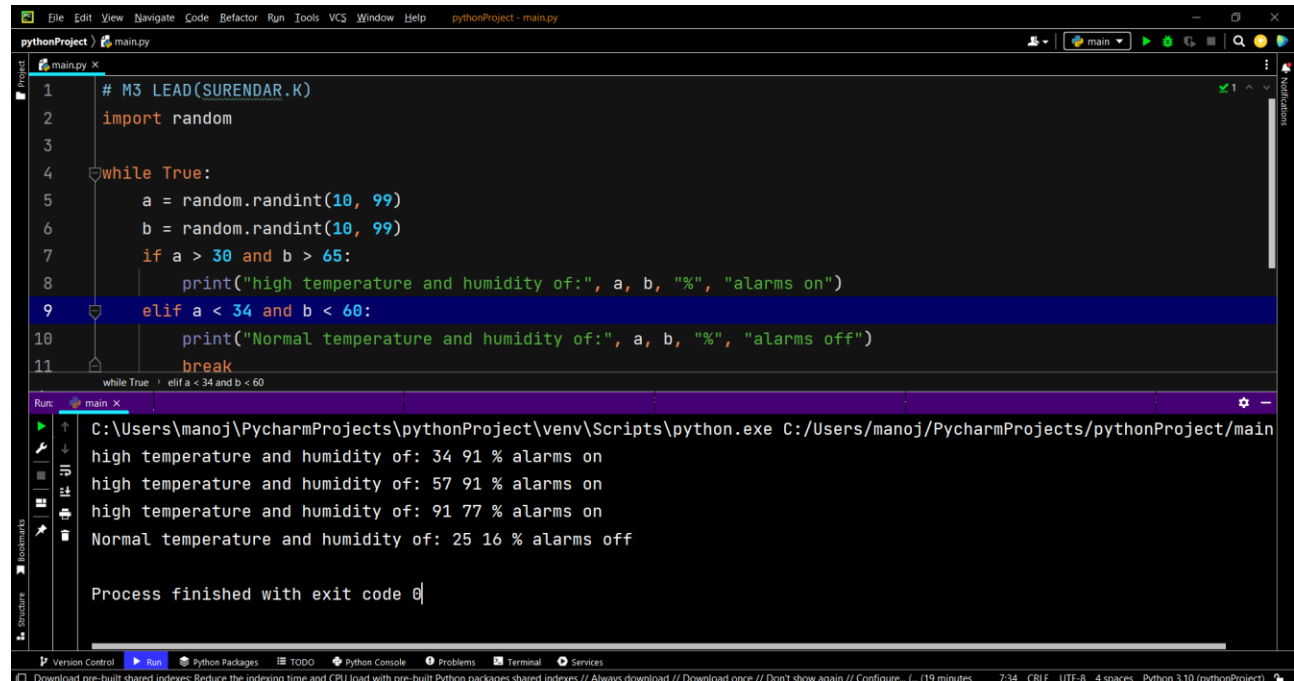
SOLUTION:

```
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
```

PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECNOLOGY
Mambakkam - Medavakkam Main Rd, Ponmar, Chennai, Tamil Nadu 600127
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

OUTPUT:



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

```
1 # M3 LEAD(SURENDAR.K)
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 > 65:
8         print("high temperature and humidity of:", a, b, "%", "alarms on")
9     elif a < 34 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: 34 91 % alarms on
high temperature and humidity of: 57 91 % alarms on
high temperature and humidity of: 91 77 % alarms on
Normal temperature and humidity of: 25 16 % alarms off

Process finished with exit code 0
```

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