

**PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND  
TECNOLOGY**

**Mambakkam - Medavakkam Main Rd, Ponmar, Chennai, Tamil  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING.

IOT(INTERNET OF THINGS) ASSIGNMENT 2

SmartFarmer -IOT Enabled smart farming application

**DTAE** :25-09-2022

**TOPIC** : 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 alaram in case of high temperature

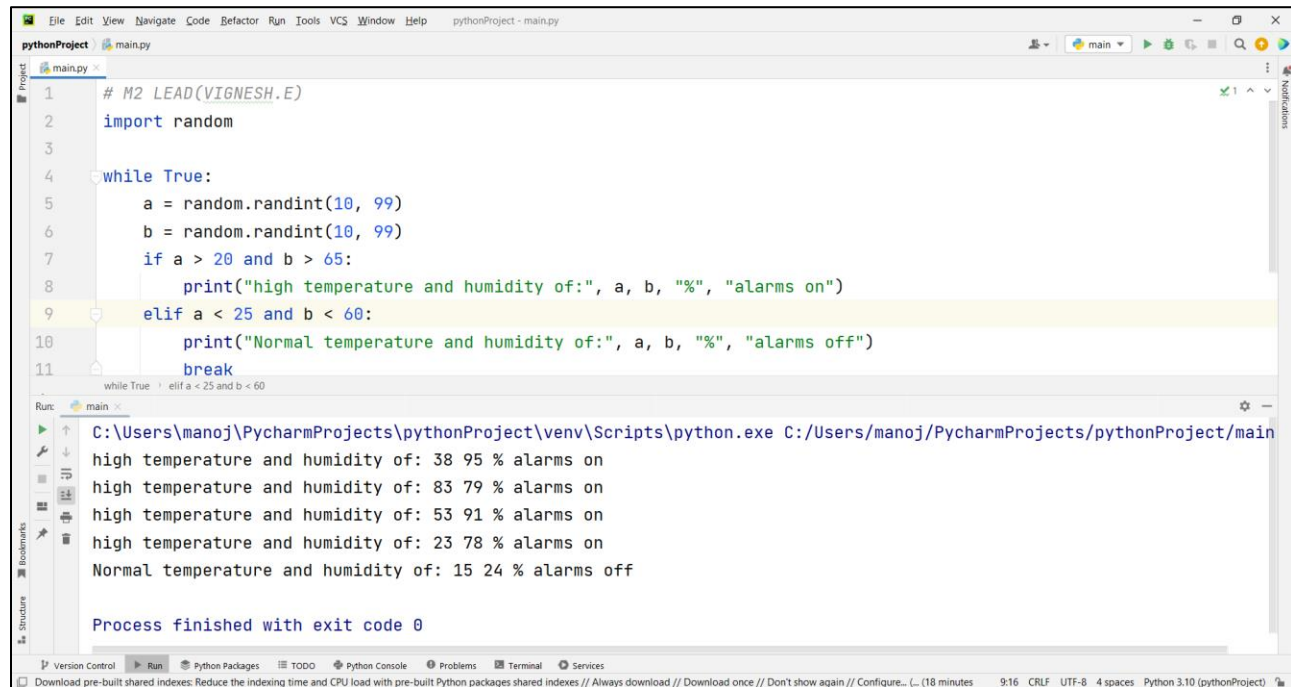
**NAME** : Vignesh.E

**CODE:**

```
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
```

## OUTPUT:



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

```
1 # M2 LEAD(VIGNESH.E)
2 import random
3
4 while True:
5     a = random.randint(10, 99)
6     b = random.randint(10, 99)
7     if a > 20 and b > 65:
8         print("high temperature and humidity of:", a, b, "%", "alarms on")
9     elif a < 25 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:

```
C:\Users\manoj\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/manoj/PycharmProjects/pythonProject/main
high temperature and humidity of: 38 95 % alarms on
high temperature and humidity of: 83 79 % alarms on
high temperature and humidity of: 53 91 % alarms on
high temperature and humidity of: 23 78 % alarms on
Normal temperature and humidity of: 15 24 % alarms off

Process finished with exit code 0
```

**FIGURE 1:** python code, to get temperature and humidity values.

\*\*\*\*\*THANKING YOU\*\*\*\*\*