

**IBM Report (Nalaiya Thiran)**  
**IOT based Smart Farming**

**SUBMITTED BY**

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## ASSIGNMENT 2:

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:

**# Python 3 code**

```
import math
```

```
import random
```

```
class Main :
```

```
    @staticmethod
```

```
    def main( args) :
```

```
        temperature=random.randrange(1,100)
```

```
        humidity =random.random()
```

```
        print("The temperature is" ,end = "")
```

```
        print(temperature)
```

```
        print("The Humidity Level is" ,end = "")
```

```
        print(random.random())
```

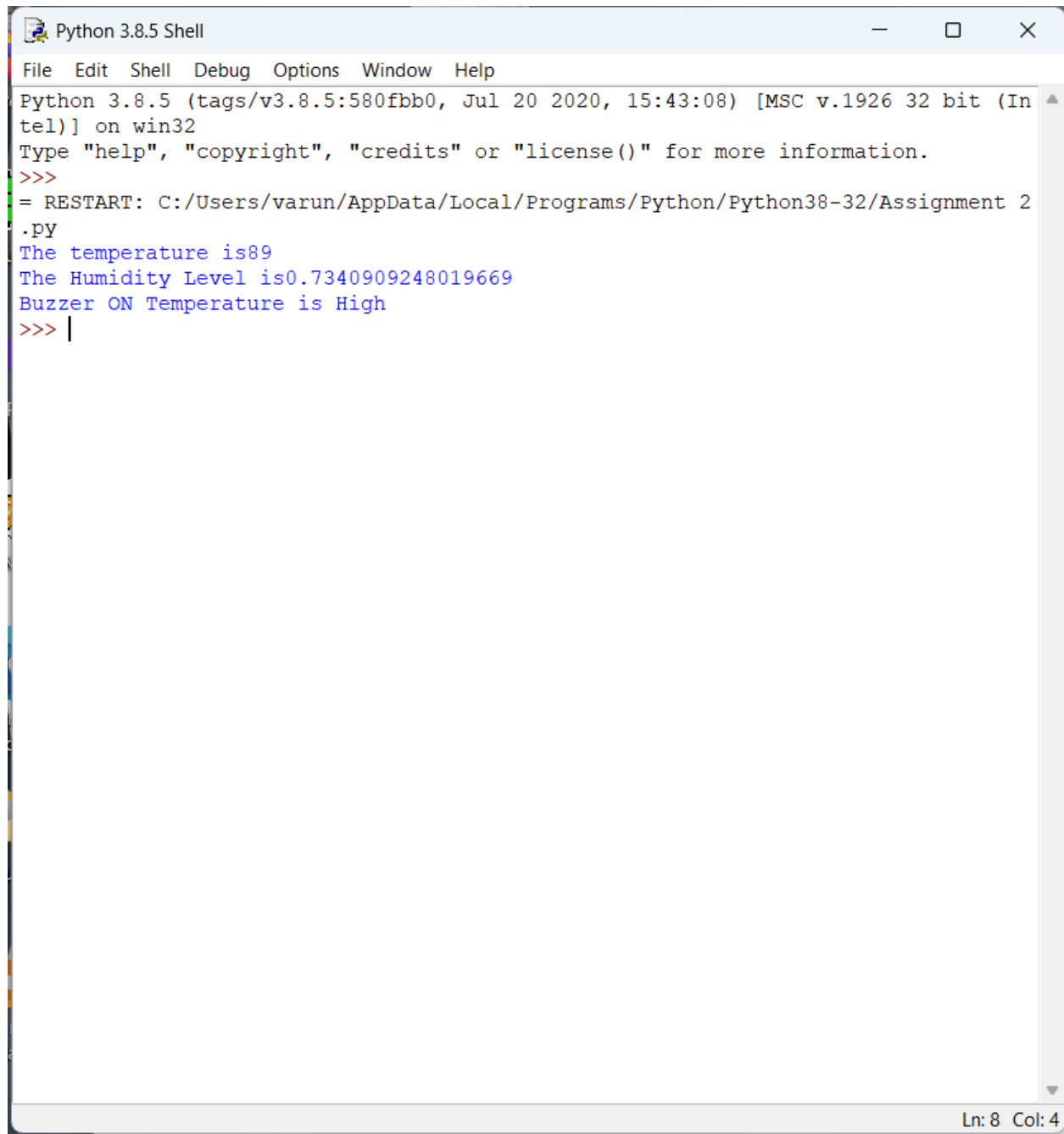
```
        if (temperature > 50) :
```

```
            print("Buzzer ON Temperature is High",end = "")
```

```
if __name__=="__main__":
```

```
    Main.main([])
```

# OUTPUT:

A screenshot of a Python 3.8.5 Shell window. The window has a title bar with the text 'Python 3.8.5 Shell' and standard minimize, maximize, and close buttons. Below the title bar is a menu bar with 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main text area shows the following output: 'Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:43:08) [MSC v.1926 32 bit (Intel)] on win32', 'Type "help", "copyright", "credits" or "license()" for more information.', a red prompt '>>>', a restart message 'RESTART: C:/Users/varun/AppData/Local/Programs/Python/Python38-32/Assignment 2 .py', and three lines of program output: 'The temperature is89', 'The Humidity Level is0.7340909248019669', and 'Buzzer ON Temperature is High'. A red prompt '>>>' with a cursor is at the bottom. The status bar at the bottom right shows 'Ln: 8 Col: 4'.

```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:43:08) [MSC v.1926 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/varun/AppData/Local/Programs/Python/Python38-32/Assignment 2 .py
The temperature is89
The Humidity Level is0.7340909248019669
Buzzer ON Temperature is High
>>> |
```

Ln: 8 Col: 4