

## Assignment 2 :

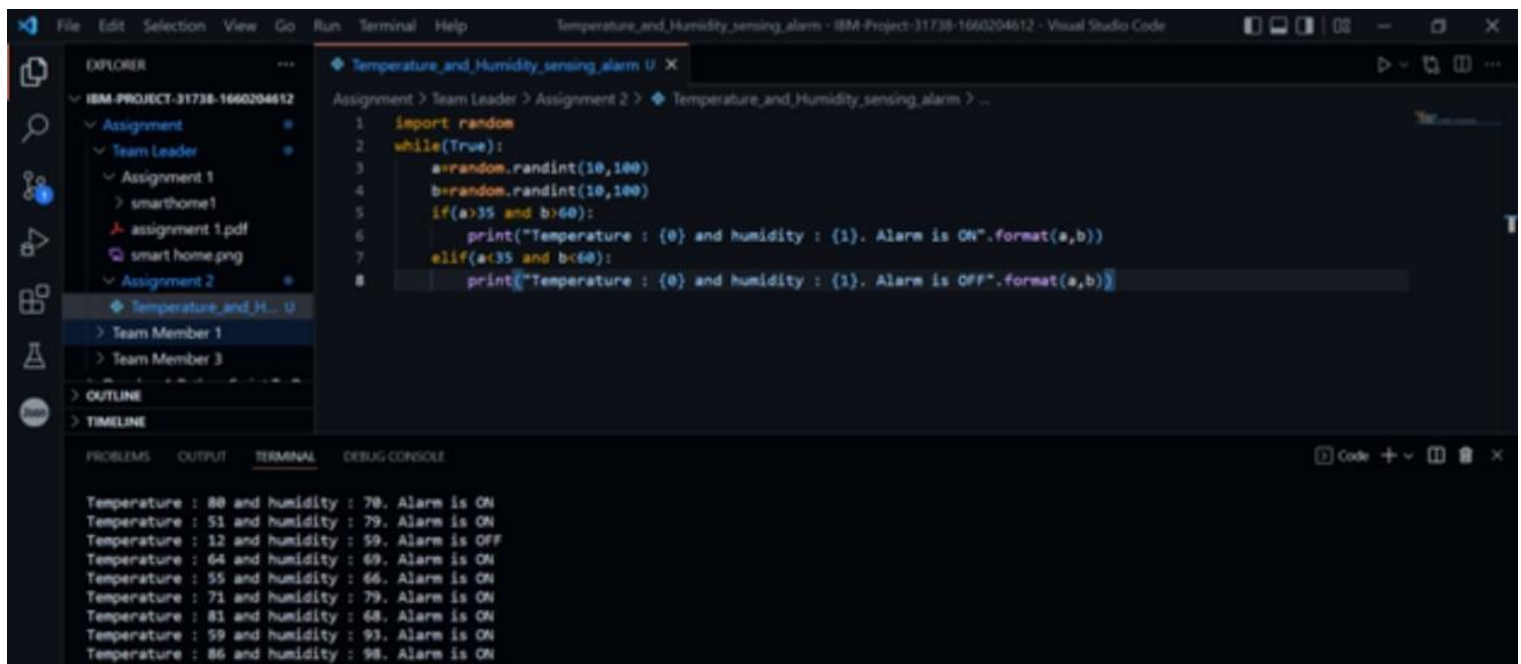
**Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.**

### Code :

```
import random

while(True):
    a=random.randint(10,100)
    b=random.randint(10,100)
    if(a>35 and b>60):
        print("Temperature : {0} and humidity : {1}. Alarm is ON".format(a,
b))
    elif(a<35 and b<60):
        print("Temperature : {0} and humidity : {1}. Alarm is OFF".format(a
,b))
```

### Image:



The screenshot displays the Visual Studio Code interface with a Python file named `Temperature_and_Humidity_sensing_alarm U` open. The code in the editor is as follows:

```
1 import random
2 while(True):
3     a=random.randint(10,100)
4     b=random.randint(10,100)
5     if(a>35 and b>60):
6         print("Temperature : {0} and humidity : {1}. Alarm is ON".format(a,b))
7     elif(a<35 and b<60):
8         print("Temperature : {0} and humidity : {1}. Alarm is OFF".format(a,b))
```

The Explorer sidebar on the left shows the project structure for `IBM-PROJECT-31738-1660204612`, including folders for `Assignment`, `Team Leader`, `Assignment 1`, `Assignment 2`, and `Team Member 1`, `Team Member 3`. The `Assignment 2` folder contains `smart home1` and `smart home.png`.

The Terminal at the bottom shows the output of the script, which prints the temperature and humidity values along with the alarm status:

```
Temperature : 80 and humidity : 70. Alarm is ON
Temperature : 51 and humidity : 79. Alarm is ON
Temperature : 12 and humidity : 59. Alarm is OFF
Temperature : 64 and humidity : 69. Alarm is ON
Temperature : 55 and humidity : 66. Alarm is ON
Temperature : 71 and humidity : 79. Alarm is ON
Temperature : 81 and humidity : 68. Alarm is ON
Temperature : 59 and humidity : 93. Alarm is ON
Temperature : 86 and humidity : 98. Alarm is ON
```