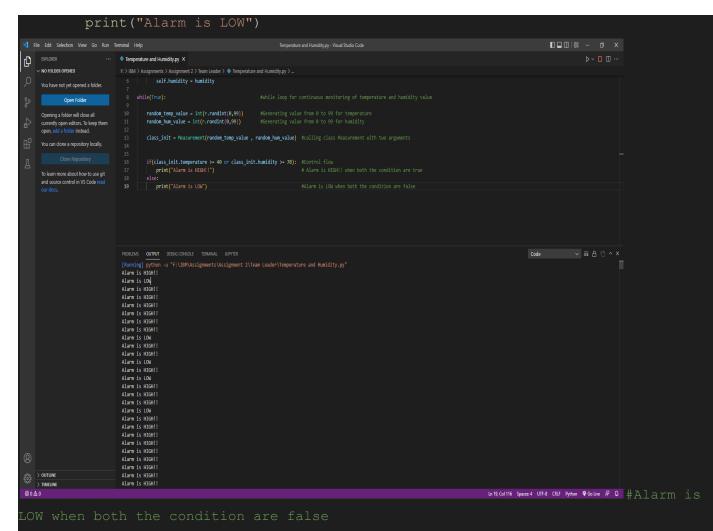# Assignment 2

Question:

   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.

Program:

```python
import random as r                                    #importing random module as r
for generating random values from 0 to 99

class Measurement:                                    #created a Measurement class for
reusability and cleaniness of code
    def __init__(self, temperature, humidity):    #Passed two methods temperature
and humidity
        self.temperature = temperature
        self.humidity = humidity

while(True):                                          #while loop for continuous
monitoring of temperature and humidity value

    random_temp_value = int(r.randint(0,99))        #Generating value from 0 to 99
for temperature
    random_hum_value = int(r.randint(0,99))         #Generating value from 0 to 99
for humidity

    class_init = Measurement(random_temp_value , random_hum_value)  #calling class
Measurement with two arguments


    if(class_init.temperature >= 40 or class_init.humidity >= 70):  #Control flow
        print("Alarm is HIGH!!")                                    # Alarm is
HIGH!! when both the condition are true
    else:
```

`print("Alarm is LOW")`

File Edit Selection View Go Run Terminal Help

Temperature and Humidity.py ✕

F: > IBM > Assignments > Assignment 2 > Team Leader > Temperature and Humidity.py > ...

```python
 6          self.humidity = humidity
 7
 8  while(True):                                        #while loop for continuous monitoring of temperature and humidity value
 9
10      random_temp_value = int(r.randint(0,99))       #Generating value from 0 to 99 for temperature
11      random_hum_value = int(r.randint(0,99))        #Generating value from 0 to 99 for humidity
12
13      class_init = Measurement(random_temp_value , random_hum_value)  #calling class Measurement with two arguments
14
15
16      if(class_init.temperature >= 40 or class_init.humidity >= 70):  #Control flow
17          print("Alarm is HIGH!!")                   # Alarm is HIGH!! when both the condition are true
18      else:
19          print("Alarm is LOW")                      #Alarm is LOW when both the condition are false
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER   Code

```
[Running] python -u "f:\IBM\Assignments\Assignment 2\Team Leader\Temperature and Humidity.py"
Alarm is HIGH!!
Alarm is LOW
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is LOW
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Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
Alarm is HIGH!!
```

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

You can clone a repository locally.

Clone Repository

To learn more about how to use git and source control in VS Code read our docs.

> OUTLINE
> TIMELINE

Ln 19, Col 116   Spaces: 4   UTF-8   CRLF   Python   Go Live

`#Alarm is LOW when both the condition are false`

Output: