

## Assignment -2

-P.Jenifer priya

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.

### Program :

```
import random

while(True):

    t=random.randint(10,99)
    h=random.randint(10,99)

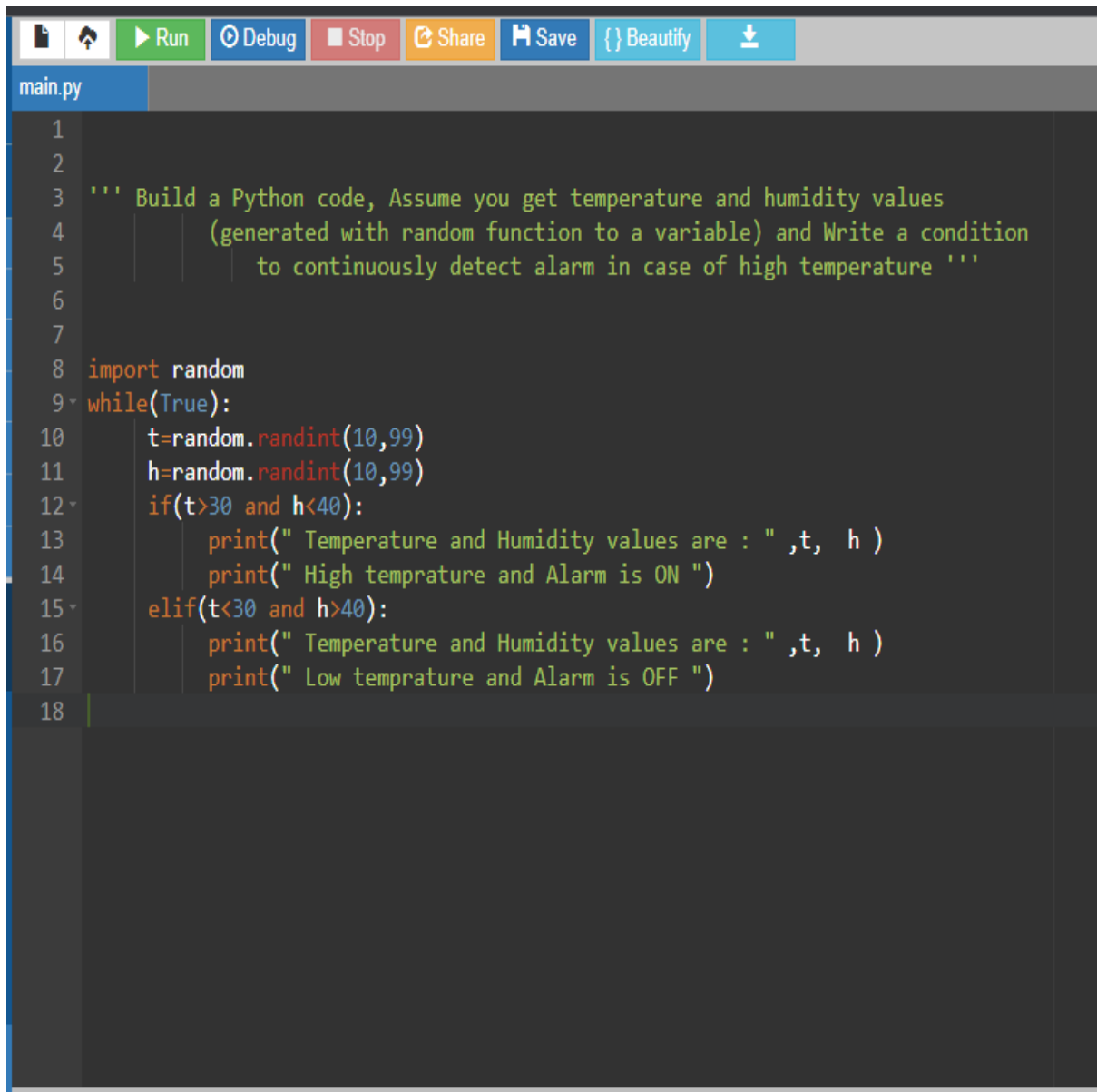
    if(t>30 and h<40):

        print(" Temperature and Humidity values are : ",t, h )
        print(" High temprature and Alarm is ON ")

    elif(t<30 and h>40):

        print(" Temperature and Humidity values are : ",t, h )
        print(" Low temprature and Alarm is OFF ")
```

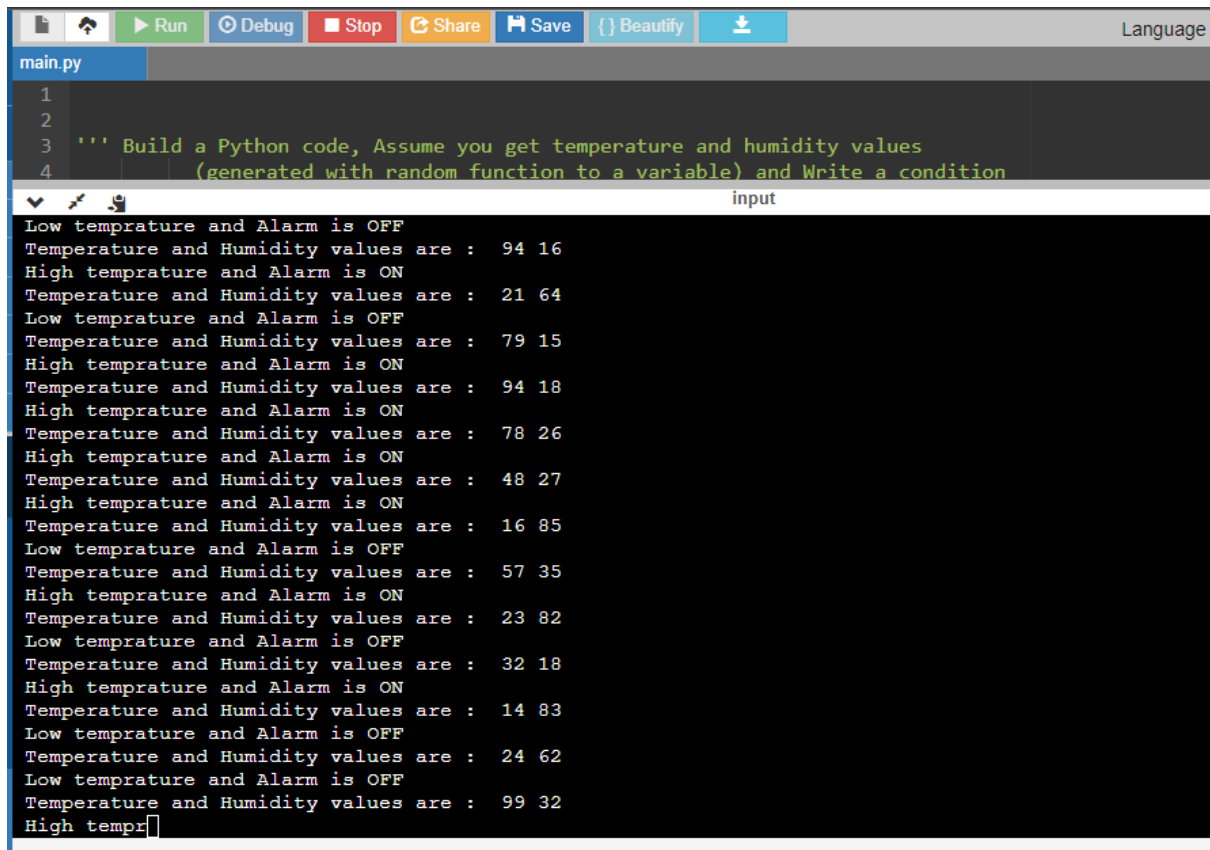
## Coding



The image shows a screenshot of a Python IDE interface. At the top, there is a toolbar with icons for file operations and execution: a file icon, a folder icon, a green 'Run' button, a blue 'Debug' button, a red 'Stop' button, an orange 'Share' button, a blue 'Save' button, a light blue 'Beautify' button, and a download icon. Below the toolbar, the file name 'main.py' is displayed in a blue tab. The main area is a dark-themed code editor with line numbers on the left. The code is a Python script that generates random temperature and humidity values and checks for alarm conditions. The code is as follows:

```
1
2
3 ''' Build a Python code, Assume you get temperature and humidity values
4     (generated with random function to a variable) and Write a condition
5     to continuously detect alarm in case of high temperature '''
6
7
8 import random
9 while(True):
10     t=random.randint(10,99)
11     h=random.randint(10,99)
12     if(t>30 and h<40):
13         print(" Temperature and Humidity values are : " ,t, h )
14         print(" High temprature and Alarm is ON ")
15     elif(t<30 and h>40):
16         print(" Temperature and Humidity values are : " ,t, h )
17         print(" Low temprature and Alarm is OFF ")
18
```

## Output



The screenshot shows a code editor with a toolbar at the top containing icons for file operations, running, debugging, stopping, sharing, saving, beautifying, and downloading. The file name is 'main.py'. The code in the editor is a Python script that generates random temperature and humidity values and checks if the alarm is on or off based on these values. The output of the program is displayed in a terminal window below the code editor, showing 20 iterations of random values and the resulting alarm status.

```
1
2
3 ''' Build a Python code, Assume you get temperature and humidity values
4      (generated with random function to a variable) and Write a condition
```

input

```
Low temprature and Alarm is OFF
Temperature and Humidity values are : 94 16
High temprature and Alarm is ON
Temperature and Humidity values are : 21 64
Low temprature and Alarm is OFF
Temperature and Humidity values are : 79 15
High temprature and Alarm is ON
Temperature and Humidity values are : 94 18
High temprature and Alarm is ON
Temperature and Humidity values are : 78 26
High temprature and Alarm is ON
Temperature and Humidity values are : 48 27
High temprature and Alarm is ON
Temperature and Humidity values are : 16 85
Low temprature and Alarm is OFF
Temperature and Humidity values are : 57 35
High temprature and Alarm is ON
Temperature and Humidity values are : 23 82
Low temprature and Alarm is OFF
Temperature and Humidity values are : 32 18
High temprature and Alarm is ON
Temperature and Humidity values are : 14 83
Low temprature and Alarm is OFF
Temperature and Humidity values are : 24 62
Low temprature and Alarm is OFF
Temperature and Humidity values are : 99 32
High tempr
```