

Assignment -2
Python
Programming

Assignment Date	21 September 2022
Student Name	Mr.THIIYAGU E
Student Roll Number	513419106042
Maximum Marks	

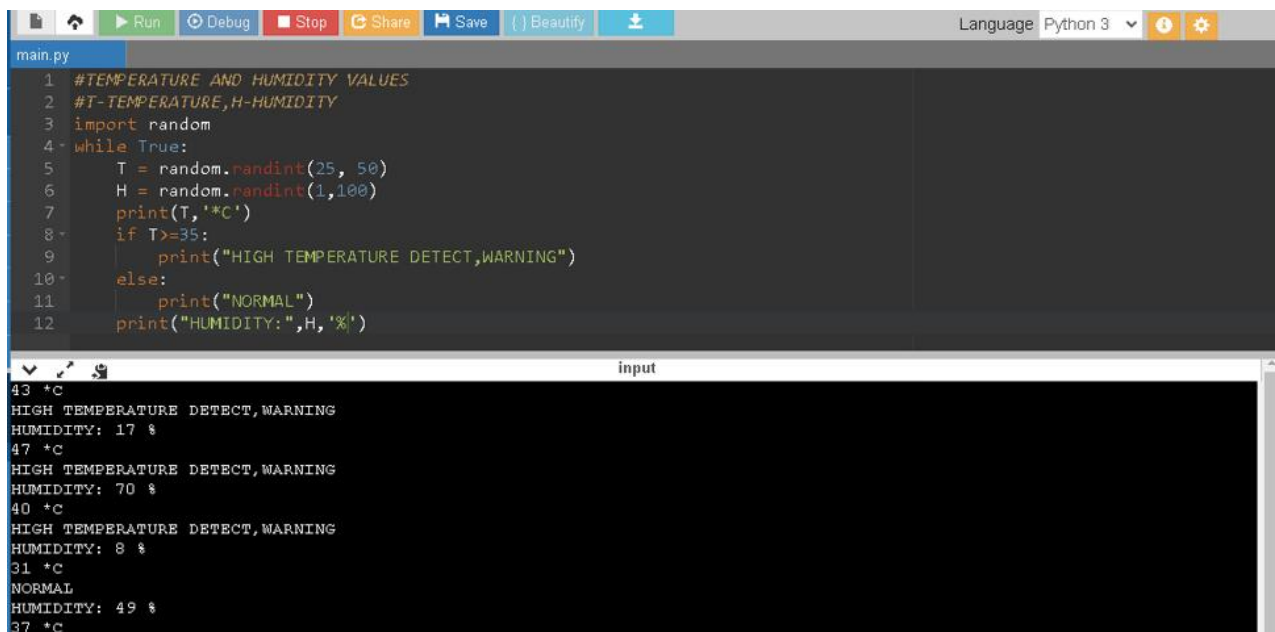
Question-1:

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.

Solution:

```
#TEMPERATURE AND HUMIDITY VALUES
#T-TEMPERATURE,H-HUMIDITY
import random
while True:
    T = random.randint(25, 50)
    H = random.randint(1,100)
    print(T,'*C')
    if T>=35:
        print("HIGH TEMPERATURE DETECT,WARNING")
    else:
        print("NORMAL")
    print("HUMIDITY:",H,'%')
```

OUTPUT:

The screenshot shows a Python IDE with a dark theme. The top toolbar includes buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. The code editor displays the same Python code as in the solution block. Below the code editor is an 'input' window showing the program's output. The output consists of several lines of text: '43 *C', 'HIGH TEMPERATURE DETECT,WARNING', 'HUMIDITY: 17 %', '47 *C', 'HIGH TEMPERATURE DETECT,WARNING', 'HUMIDITY: 70 %', '40 *C', 'HIGH TEMPERATURE DETECT,WARNING', 'HUMIDITY: 8 %', '31 *C', 'NORMAL', 'HUMIDITY: 49 %', and '37 *C'. The output window has a scroll bar on the right side.

```
main.py
1 #TEMPERATURE AND HUMIDITY VALUES
2 #T-TEMPERATURE,H-HUMIDITY
3 import random
4 while True:
5     T = random.randint(25, 50)
6     H = random.randint(1,100)
7     print(T,'*C')
8     if T>=35:
9         print("HIGH TEMPERATURE DETECT,WARNING")
10    else:
11        print("NORMAL")
12    print("HUMIDITY:",H,'%')
```

```
input
43 *C
HIGH TEMPERATURE DETECT,WARNING
HUMIDITY: 17 %
47 *C
HIGH TEMPERATURE DETECT,WARNING
HUMIDITY: 70 %
40 *C
HIGH TEMPERATURE DETECT,WARNING
HUMIDITY: 8 %
31 *C
NORMAL
HUMIDITY: 49 %
37 *C
```