

**Assignment -2**  
Python Programming

Assignment Date	21 September 2022
Student Name	Mr. VINOTH KUMAR B
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Maximum Marks	2 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.

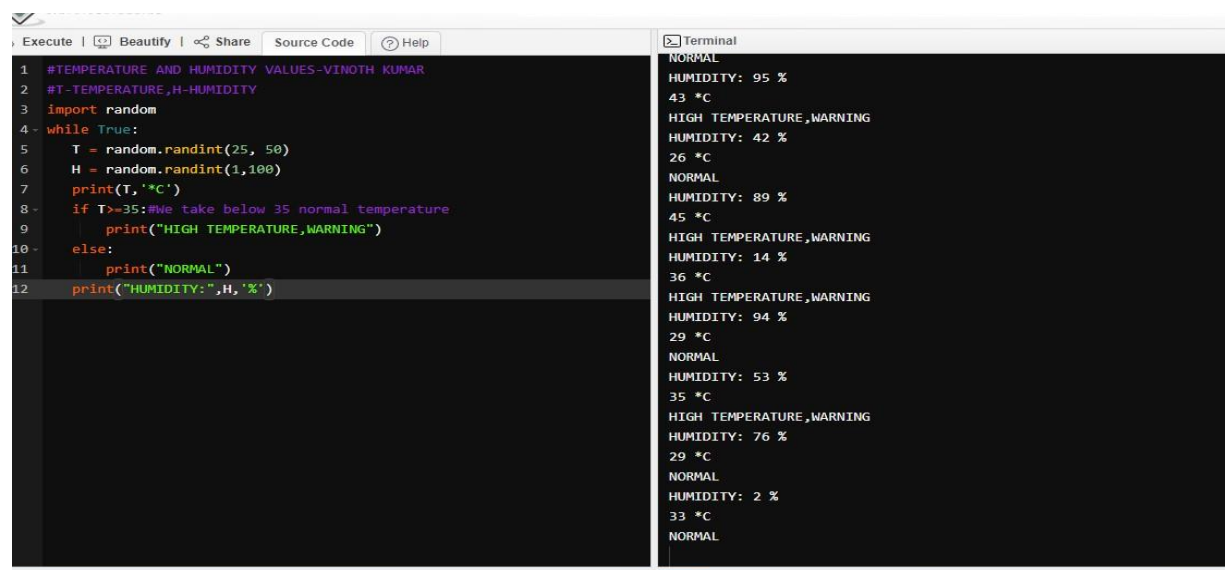
**Solution:**

```
#T-TEMPERATURE, H-HUMIDITY
```

```
import random
while True:
    T = random.randint(25, 50)
    H = random.randint(1,100)
    print(T,'*C')
```

```
    if T>=35: #We take below 35 normal temperature
        print("HIGH TEMPERATURE,WARNING")
```

```
    else:
        print("NORMAL")
        print("HUMIDITY:",H,'%')
```



The screenshot shows a Python IDE with a code editor on the left and a terminal window on the right. The code in the editor is as follows:

```
1 #TEMPERATURE AND HUMIDITY VALUES-VINOTH KUMAR
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: #We take below 35 normal temperature
9         print("HIGH TEMPERATURE,WARNING")
10    else:
11        print("NORMAL")
12        print("HUMIDITY:",H,'%')
```

The terminal window on the right displays the output of the code, showing a continuous loop of temperature and humidity readings. The output is as follows:

```
NORMAL
HUMIDITY: 95 %
43 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 42 %
26 *C
NORMAL
HUMIDITY: 89 %
45 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 14 %
36 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 94 %
29 *C
NORMAL
HUMIDITY: 53 %
35 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 76 %
29 *C
NORMAL
HUMIDITY: 2 %
33 *C
NORMAL
```