

Assignment -2
Python Programming

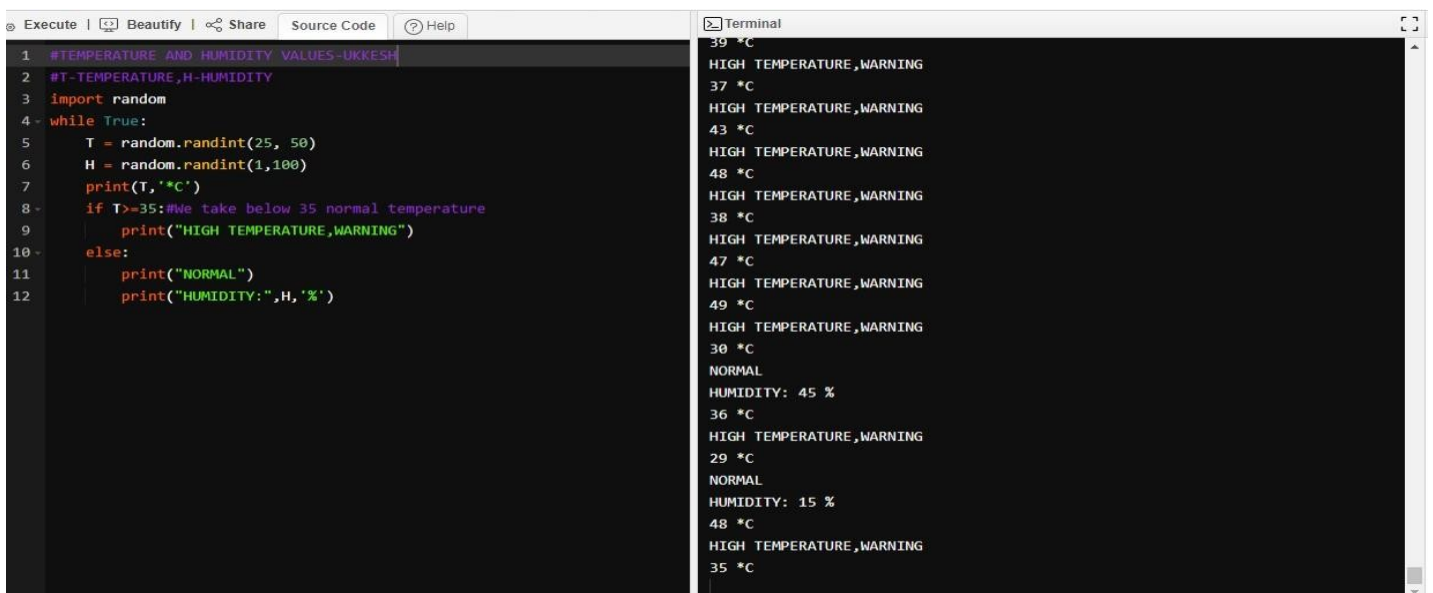
Assignment Date	21 September 2022
Student Name	UKKESH.S
Student Roll Number	513419106043

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- UKKESH
#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 code editor on the left and a terminal window on the right. The code editor contains the following Python code:

```
1 #TEMPERATURE AND HUMIDITY VALUES-UKKESH
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 shows the output of the code, which is a continuous stream of temperature and humidity values. The output is as follows:

```
39 *C
HIGH TEMPERATURE,WARNING
37 *C
HIGH TEMPERATURE,WARNING
43 *C
HIGH TEMPERATURE,WARNING
48 *C
HIGH TEMPERATURE,WARNING
38 *C
HIGH TEMPERATURE,WARNING
47 *C
HIGH TEMPERATURE,WARNING
49 *C
HIGH TEMPERATURE,WARNING
30 *C
NORMAL
HUMIDITY: 45 %
36 *C
HIGH TEMPERATURE,WARNING
29 *C
NORMAL
HUMIDITY: 15 %
48 *C
HIGH TEMPERATURE,WARNING
35 *C
```

