

Assignment -2
Python Programming

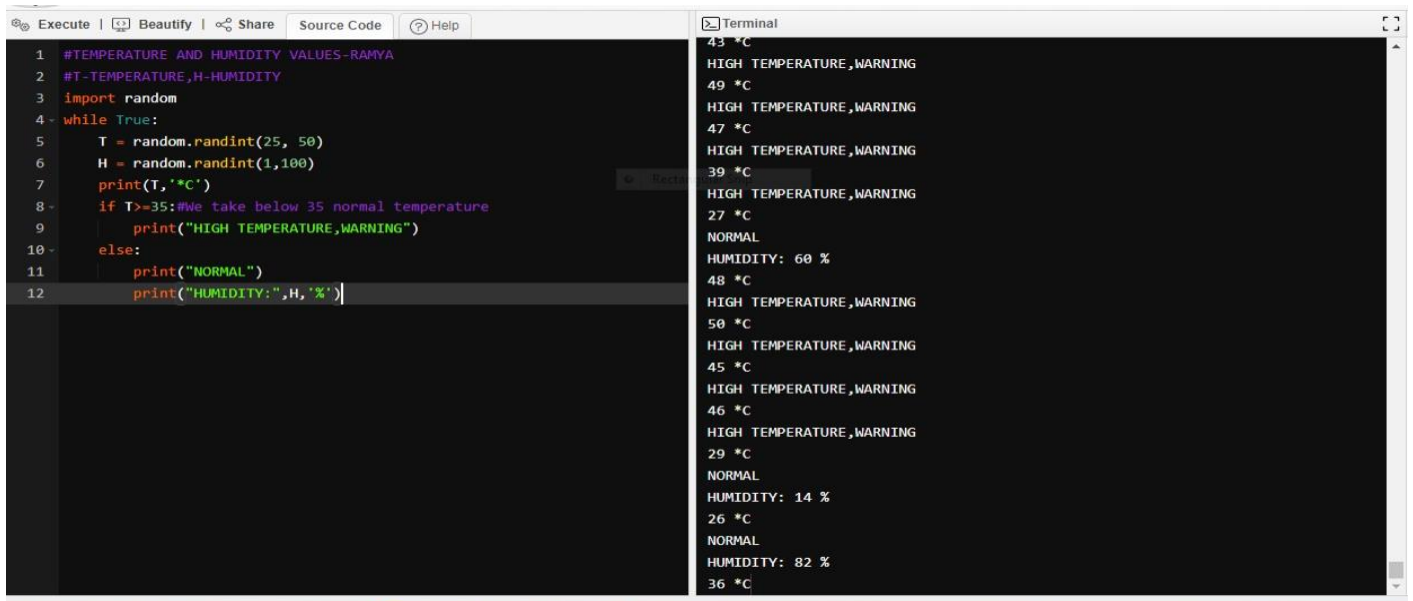
Assignment Date	21 September 2022
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Maximum Marks	

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-LAVANYA
#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 code execution environment with a dark theme. The left pane displays the source code, and the right pane shows the terminal output. The code is a loop that generates random temperature (T) and humidity (H) values. It prints T in degrees Celsius and checks if it is greater than or equal to 35. If so, it prints 'HIGH TEMPERATURE,WARNING'; otherwise, it prints 'NORMAL'. It also prints the humidity percentage.

```
1 #TEMPERATURE AND HUMIDITY VALUES-LAVANYA
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,'%')
```

Terminal Output:

```
43 *C
HIGH TEMPERATURE,WARNING
49 *C
HIGH TEMPERATURE,WARNING
47 *C
HIGH TEMPERATURE,WARNING
39 *C
HIGH TEMPERATURE,WARNING
27 *C
NORMAL
HUMIDITY: 60 %
48 *C
HIGH TEMPERATURE,WARNING
50 *C
HIGH TEMPERATURE,WARNING
45 *C
HIGH TEMPERATURE,WARNING
46 *C
HIGH TEMPERATURE,WARNING
29 *C
NORMAL
HUMIDITY: 14 %
26 *C
NORMAL
HUMIDITY: 82 %
36 *C
```

