

**Assignment -2**  
Python Programming

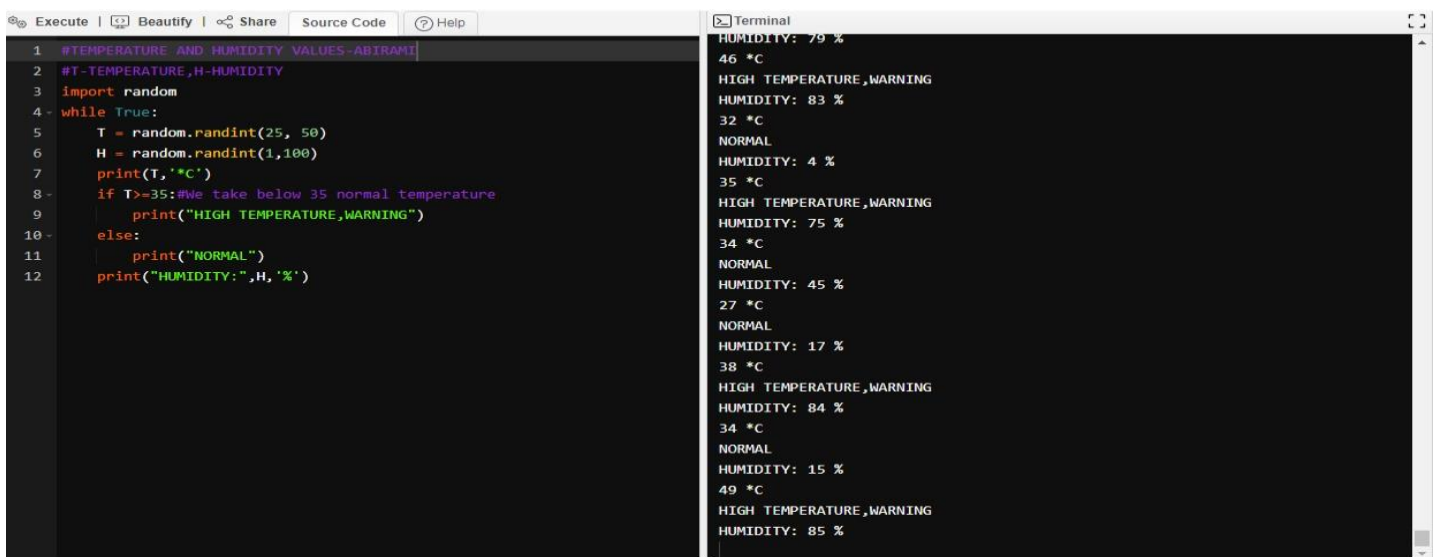
Assignment Date	21 September 2022
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Student Roll Number	513419106001
Maximum Marks	

**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 image shows a screenshot of a Python code editor with a dark theme. The editor has tabs for 'Execute', 'Beautify', 'Share', 'Source Code', and 'Help'. The code is written in a file named '#TEMPERATURE AND HUMIDITY VALUES-ABIRAMI.P'. The code uses the random module to generate temperature (T) and humidity (H) values. It prints the temperature in Celsius and checks if it is greater than or equal to 35. If it is, it prints 'HIGH TEMPERATURE,WARNING'. Otherwise, it prints 'NORMAL'. It also prints the humidity percentage. The terminal output on the right shows the execution of the code, displaying random temperature and humidity values and the corresponding warnings or normal status messages.

```
1 #TEMPERATURE AND HUMIDITY VALUES-ABIRAMI.P
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
HUMIDITY: 79 %
46 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 83 %
32 *C
NORMAL
HUMIDITY: 4 %
35 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 75 %
34 *C
NORMAL
HUMIDITY: 45 %
27 *C
NORMAL
HUMIDITY: 17 %
38 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 84 %
34 *C
NORMAL
HUMIDITY: 15 %
49 *C
HIGH TEMPERATURE,WARNING
HUMIDITY: 85 %
```

