Assignment -2
Python Programming

Assignment Date	26 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u 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.
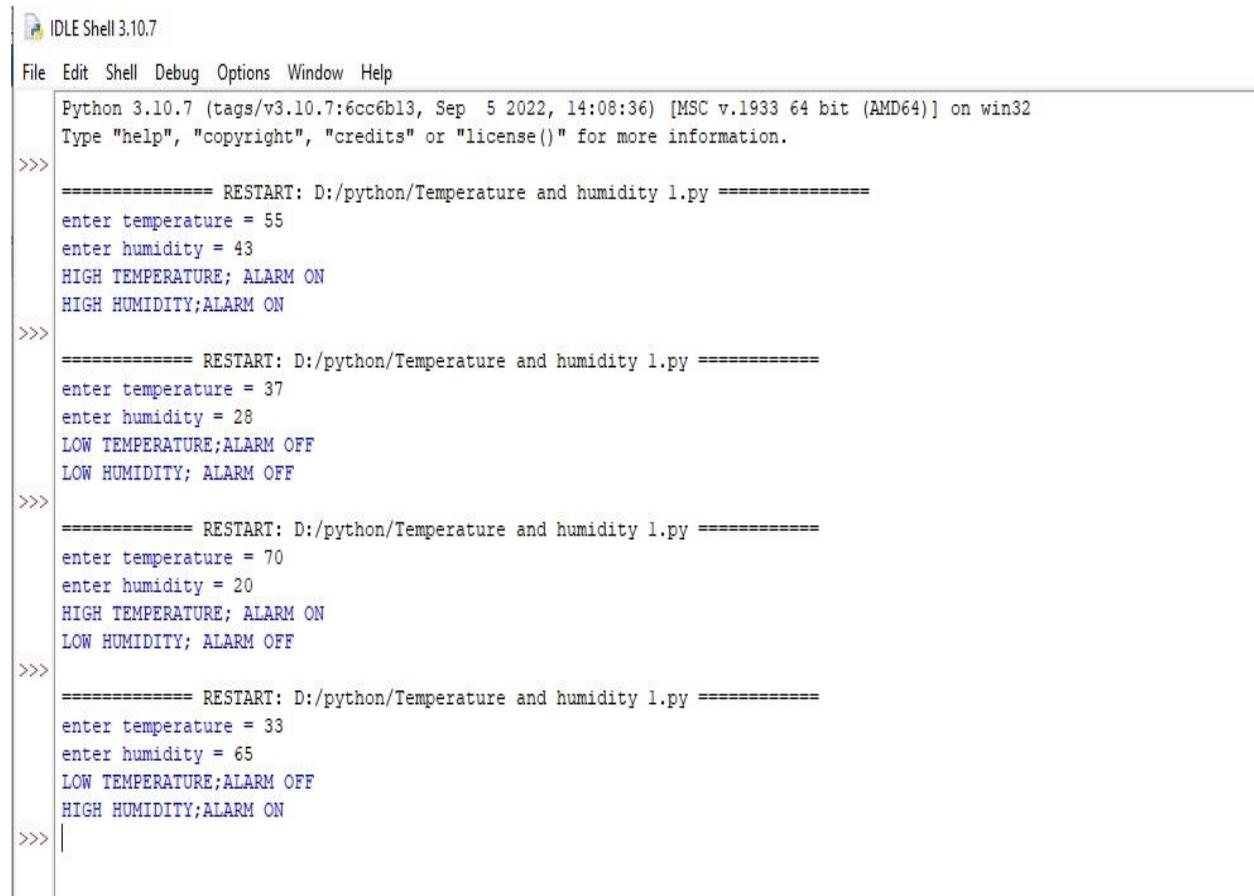
Solution:

CODE:

```python
a = int(input("enter temperature = "))
b = int(input("enter humidity = "))

if a>40:
    print("HIGH TEMPERATURE; ALARM ON")
else:
    print("LOW TEMPERATURE;ALARM OFF")
if b>30:
    print("HIGH HUMIDITY;ALARM ON")
else:
    print("LOW HUMIDITY; ALARM OFF")
```

OUTPUT:


```
IDLE Shell 3.10.7

File  Edit  Shell  Debug  Options  Window  Help

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=============== RESTART: D:/python/Temperature and humidity 1.py ===============
enter temperature = 55
enter humidity = 43
HIGH TEMPERATURE; ALARM ON
HIGH HUMIDITY;ALARM ON
>>>
============= RESTART: D:/python/Temperature and humidity 1.py ============
enter temperature = 37
enter humidity = 28
LOW TEMPERATURE;ALARM OFF
LOW HUMIDITY; ALARM OFF
>>>
============= RESTART: D:/python/Temperature and humidity 1.py ============
enter temperature = 70
enter humidity = 20
HIGH TEMPERATURE; ALARM ON
LOW HUMIDITY; ALARM OFF
>>>
============= RESTART: D:/python/Temperature and humidity 1.py ============
enter temperature = 33
enter humidity = 65
LOW TEMPERATURE;ALARM OFF
HIGH HUMIDITY;ALARM ON
>>>
```