

## **ASSIGNMENT 2**

Team ID:**PNT2022TMID52302**

Project Name: **Gas Leakage monitoring &Alerting system for Industries**

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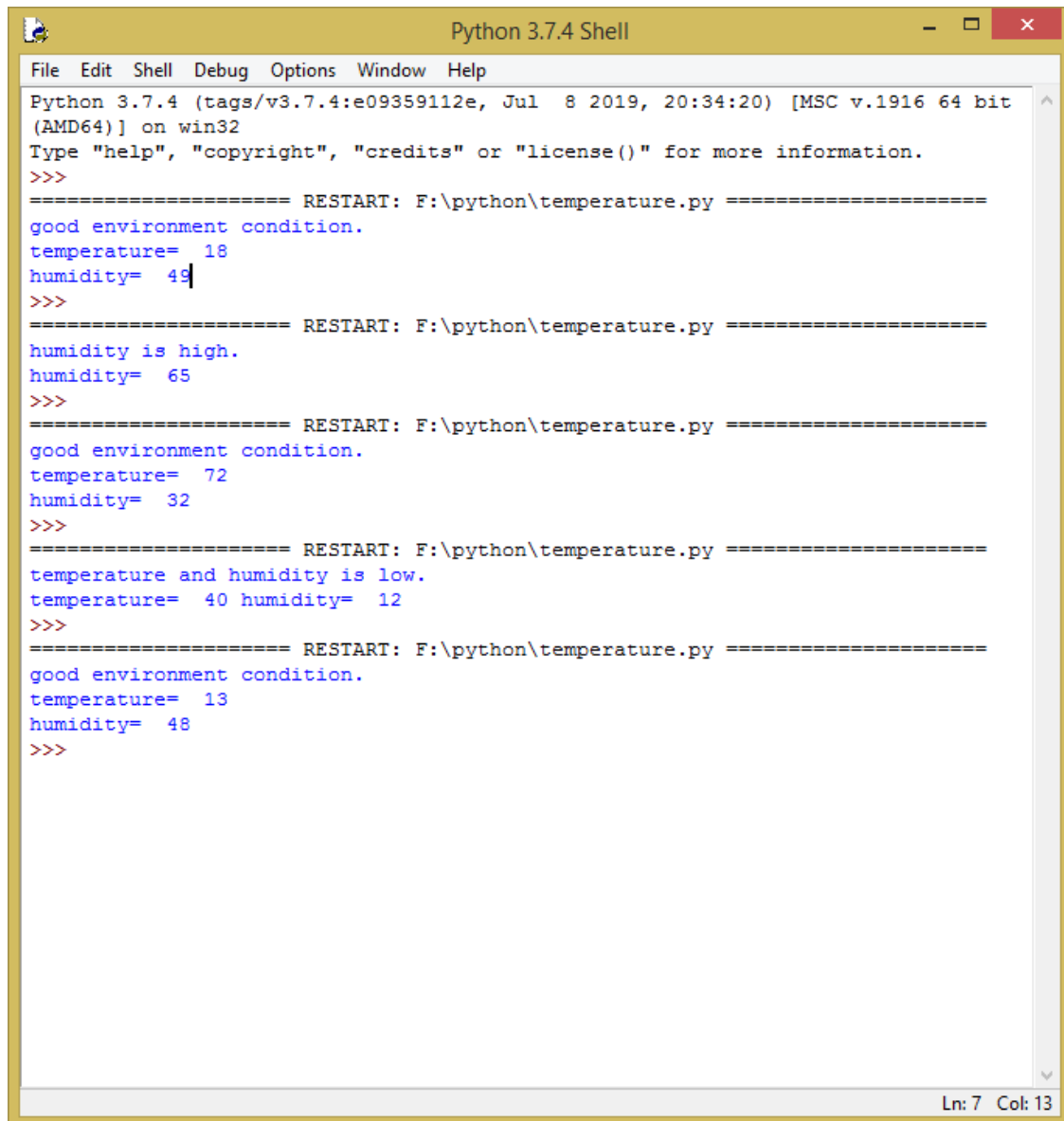
**QUESTION:***Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.*

### **Solution Code:**

```
from numpy import random

a = random.randint(100)
b = random.randint(100)
def environment(x,y):
    if(x>=80):
        print("temperature is high.")
        print("temperature= ",x)
    elif(y>=60):
        print("humidity is high.")
        print("humidity= ",y)
    elif(x<=40)&(y<=30):
        print("temperature and humidity is low.")
        print("temperature= ",x,"humidity= ",y)
    else:
        print("good environment condition.")
        print("temperature= ",x)
        print("humidity= ",y)
environment(a,b)
```

## OUTPUT:



```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:\python\temperature.py =====
good environment condition.
temperature= 18
humidity= 49
>>>
===== RESTART: F:\python\temperature.py =====
humidity is high.
humidity= 65
>>>
===== RESTART: F:\python\temperature.py =====
good environment condition.
temperature= 72
humidity= 32
>>>
===== RESTART: F:\python\temperature.py =====
temperature and humidity is low.
temperature= 40 humidity= 12
>>>
===== RESTART: F:\python\temperature.py =====
good environment condition.
temperature= 13
humidity= 48
>>>
```

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