

ASSIGNMENT – 2

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Project Name	Gas Leakage monitoring & Alerting system for Industries
Marks	2marks

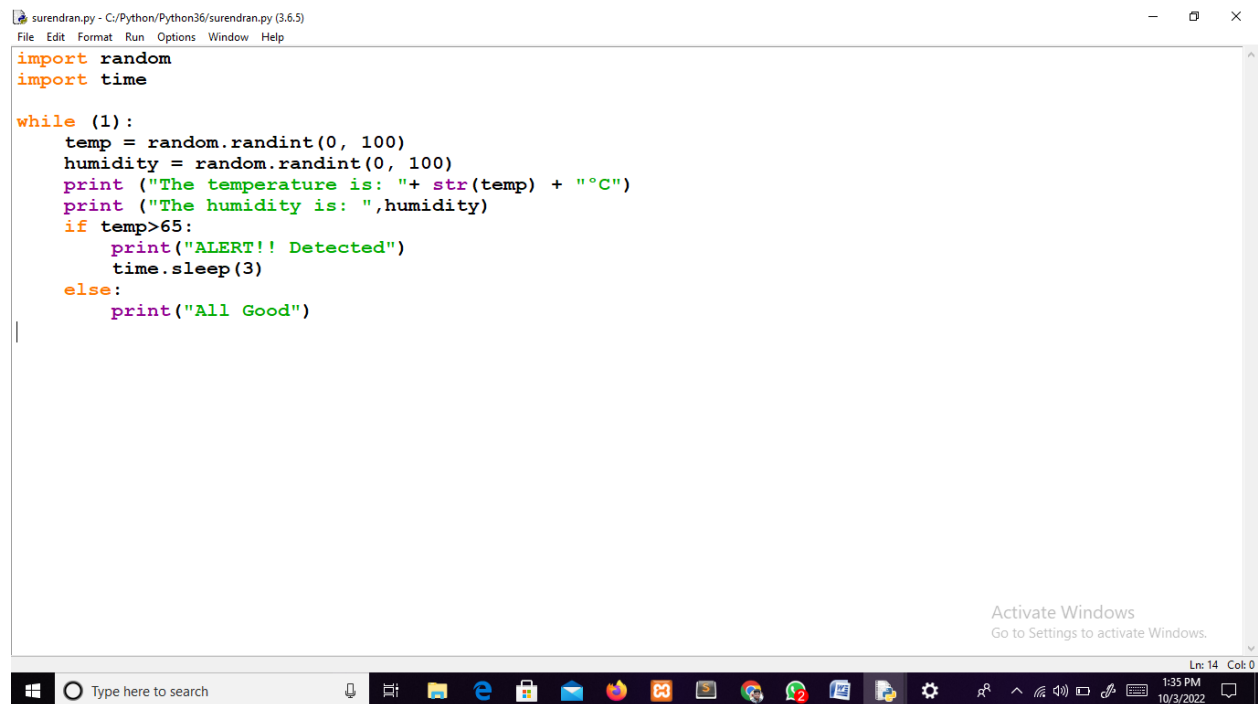
Assignment Question:

Built 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.

Python code:

```
import random
import time
while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    print ("The temperature is: "+ str(temp) + "°C")
    print ("The humidity is: ",humidity)
    if temp>65:
        print("ALERT!! Detected")
        time.sleep(3)
    else:
```

```
print("All Good")
```



The screenshot shows a Windows 10 desktop environment. A code editor window titled 'surendran.py - C:/Python/Python36/surendran.py (3.6.5)' is open, displaying a Python script. The script imports 'random' and 'time' modules, then enters a 'while (1):' loop. Inside the loop, it generates random temperature and humidity values, prints them, and checks if the temperature is above 65 degrees. If so, it prints an alert and sleeps for 3 seconds; otherwise, it prints 'All Good'. The Windows taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray on the right indicates the time is 1:35 PM on 10/3/2022. An 'Activate Windows' watermark is visible in the bottom right corner of the code editor window.

```
surendran.py - C:/Python/Python36/surendran.py (3.6.5)
File Edit Format Run Options Window Help
import random
import time

while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    print ("The temperature is: " + str(temp) + "°C")
    print ("The humidity is: ",humidity)
    if temp>65:
        print("ALERT!! Detected")
        time.sleep(3)
    else:
        print("All Good")
```

Activate Windows
Go to Settings to activate Windows.

Ln: 14 Col: 0

Type here to search

1:35 PM
10/3/2022

OUTPUT:

```
*Python 3.6.5 Shell*
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python/Python36/surendran.py =====
The temperature is: 13°C
The humidity is: 92
All Good
The temperature is: 31°C
The humidity is: 47
All Good
The temperature is: 79°C
The humidity is: 53
ALERT!! Detected
The temperature is: 83°C
The humidity is: 85
ALERT!! Detected
```

Activate Windows
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10/3/2022