Assignment -2

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Project Name	Smart Waste Management System for Metropolitan Cities

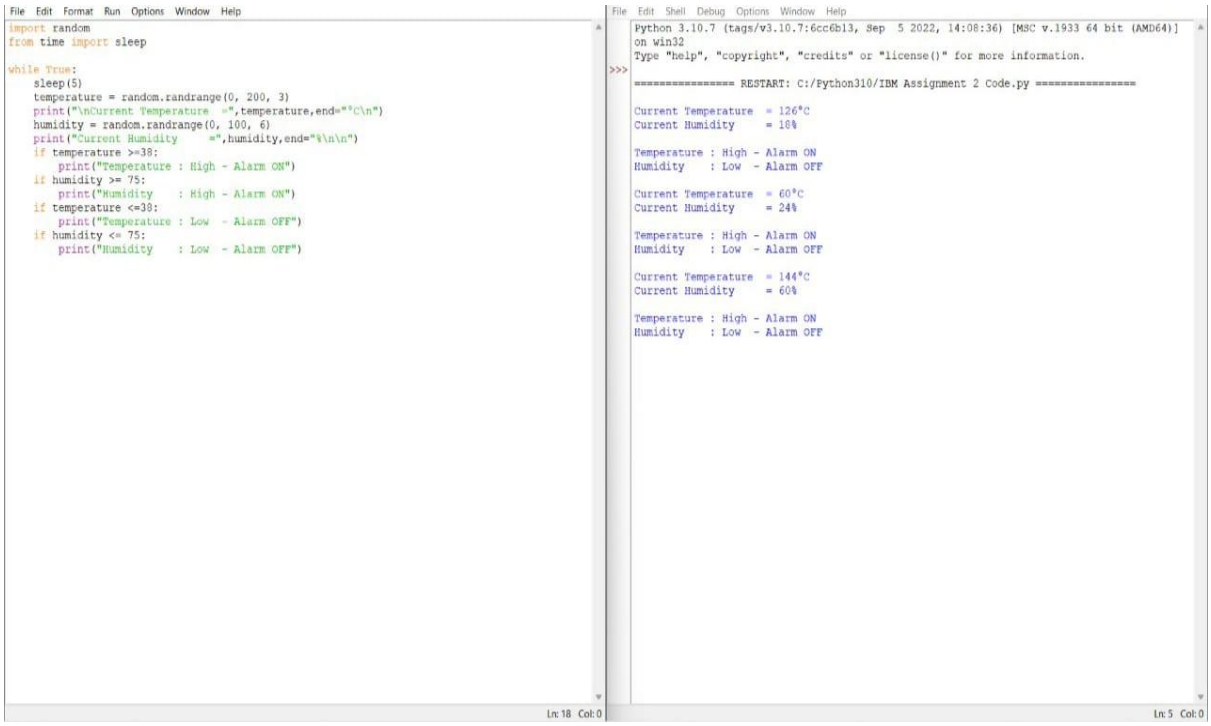
Question: Build a python code,Assume you get temperature and humidity values (generated with a random function to a variable)and write a condition to detect an alarm in case of high temperature continuously.

CODE:

```
import random
from time import sleep
while True:
    sleep(5)
    temperature = random.randrange(0, 200, 3)
    print("\nCurrent Temperature  =",temperature,end="°C\n")
    humidity = random.randrange(0, 100, 6)
    print("Current Humidity     =",humidity,end="%\n\n")
    if temperature >=38:
        print("Temperature : High - Alarm ON")
    if humidity >= 75:
        print("Humidity    :High - Alarm ON")
```

```
    if temperature <=38:
        print("Temperature : Low  - Alarm OFF")
    if humidity <= 75:
        print("Humidity    : Low  - Alarm OFF")
```

SCREENSHOT:



```
File  Edit  Format  Run  Options  Window  Help
import random
from time import sleep

while True:
    sleep(5)
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    print("\nCurrent Temperature  =",temperature,end="°C\n")
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    print("Current Humidity     =",humidity,end="%\n\n")
    if temperature >=38:
        print("Temperature : High - Alarm ON")
    if humidity >= 75:
        print("Humidity    : High - Alarm ON")
    if temperature <=38:
        print("Temperature : Low  - Alarm OFF")
    if humidity <= 75:
        print("Humidity    : Low  - Alarm OFF")
```

```
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: C:/Python310/IBM Assignment 2 Code.py ==========

Current Temperature  = 126°C
Current Humidity     = 18%

Temperature : High - Alarm ON
Humidity    : Low  - Alarm OFF

Current Temperature  = 60°C
Current Humidity     = 24%

Temperature : High - Alarm ON
Humidity    : Low  - Alarm OFF

Current Temperature  = 144°C
Current Humidity     = 60%

Temperature : High - Alarm ON
Humidity    : Low  - Alarm OFF
```