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:

```
*IDLE Shell 3.10.7*
                                                                                                                                                                        Rest.py - C:\Users\Dark-Devil\Desktop\test.py (3.10.7)
File Edit Shell Debug Options Window Help
                                                                                                                                                                       File Edit Format Run Options Window Help
import random
from time import sleep
       Humidity >> High - Alarm ON
        Current Temperature = 135°C
Current Humidity = 42%
                                                                                                                                                                              ile 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")
        Temperature >> High - Alarm ON
Humidity >> Low - Alarm OFF
        Current Temperature = 39°C
Current Humidity = 24%
        Temperature >> High - Alarm ON
Humidity >> Low - Alarm OFF
                                                                                                                                                                              ir temperature <-38:
    print("Temperature >> Low - Alarm OFF")
if humidity <- 75:
    print("Humidity >> Low - Alarm OFF")
        Current Temperature = 3°C
Current Humidity = 36%
        Humidity >> High - Alarm ON
Temperature >> Low - Alarm OFF
        Current Temperature = 72°C
Current Humidity = 54%
        Temperature >> High - Alarm ON
Humidity >> Low - Alarm OFF
        Current Temperature = 105°C
Current Humidity = 6%
         Temperature >> High - Alarm ON
Humidity >> Low - Alarm OFF
```