

ASSIGNMENT 1

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PROJECT NAME	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Code and Output

```
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")
```

File Edit Format Run Options Window Help

```
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")
```

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```
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/IDM Assignment 2 Code.py =====
Current Temperature = 126°C
Current Humidity = 104
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
Current Temperature = 60°C
Current Humidity = 244
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
Current Temperature = 144°C
Current Humidity = 604
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
```

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