NALAIYA THIRAN

GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES - ASSIGNMENT 2

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Build a python code, Assume you 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).

CODE:

```
import random
i=1
c=u'\N{DEGREE SIGN}'
while(i<=7):
  a=random.randint(20,200)  #Get random temperature value

  b=random.randint(20,100)  #Get random humidity value
  print(f'Day {i}')
  print(f'Temperature:{a} {c}C')
  print(f'Humidity   :{b} g.m^3')
  if a>80:
    if b>80:
     print("HAZARD PREDICTED... ")
```

```python
    else:

        print("HIGH TEMPERATURE ")
    elif a==80:

        print("TEMPERATURE HIGH ")
    else:

        print("ALL GOOD ")
    i=i+1

    print(end="\n")
```

OUTPUT:

```
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python38\Assignment 2.py
Day 1
Temperature:57 °C
Humidity   :55 g.m^3
ALL GOOD

Day 2
Temperature:184 °C
Humidity   :98 g.m^3
HAZARD PREDICTED...

Day 3
Temperature:94 °C
Humidity   :43 g.m^3
HIGH TEMPERATURE

Day 4
Temperature:41 °C
Humidity   :45 g.m^3
ALL GOOD

Day 5
Temperature:124 °C
Humidity   :81 g.m^3
HAZARD PREDICTED...
```

```
Day 5
Temperature:124 °C
Humidity   :81 g.m^3
HAZARD PREDICTED...

Day 6
Temperature:42 °C
Humidity   :32 g.m^3
ALL GOOD

Day 7
Temperature:62 °C
Humidity   :62 g.m^3
ALL GOOD

>>> |
```