

Problem statement:

Assume you get temperature and humidity values (generated with random function to a variable) and write a condition detect alarm in case of high temperature.

PYTHON CODE:

```
from random import randrange
from time import sleep

threshold=40

print('Checking Temperature And Humidity')
while True:
    temperature=randrange(10,60,1)
    humidity=randrange(10,95,1)
    print("Temperature :",temperature)
    print("Humidity:" , humidity)
    if temperature>threshold and humidity<threshold:
        break
    sleep(1)

print("Warning!!! Temperature Is High And Humidity Is Low!")
```

OUTPUT :



```
IDLE Shell 3.10.7
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:/Users/sives/Documents/pyth/assignment 2.py =====
Checking Temperature And Humidity
Temperature : 50
Humidity: 78
Temperature : 26
Humidity: 61
Temperature : 32
Humidity: 40
Temperature : 18
Humidity: 67
Temperature : 38
Humidity: 35
Temperature : 58
Humidity: 23
Warning!!! Temperature Is High And Humidity Is Low!
>>>
```