

CODE:

```
import time
```

```
time.sleep(5) #it will monitor for every 5 seconds
```

CODE:

```
assignment2.py - C:/Users/admin/Desktop/assignment2.py (3.10.7)
File Edit Format Run Options Window Help

import random
import time

while(1):
    temp=random.randint(0,80)
    hum=random.randint(0,80)
    if(15<=temp<=30):
        print("Temperature is normal. Temperature = ",temp)           #room temperature may lie between 15C - 30C
    elif(temp<15):
        print("Temperature is too low. Temperature = ",temp)
    elif(temp>30):
        print("Temperature is too high. Temperature = ",temp)
    if(30<=hum<=50):
        print("Humidity is normal. Humidity = ",hum)                 #humidity may lie between 30% - 50%
    elif(hum<30):
        print("Very less humidity. Humidity = ",hum)
    elif(hum>50):
        print("Very high humidity. Humidity = ",hum)
    print()
    time.sleep(5)                                                    #it will monitor for every 5 seconds
```

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/admin/Desktop/assignment2.py =====
Temperature is too high. Temperature = 47
Humidity is normal. Humidity = 44

Temperature is too low. Temperature = 3
Very less humidity. Humidity = 8

Temperature is too high. Temperature = 32
Very less humidity. Humidity = 1

Temperature is too low. Temperature = 0
Very less humidity. Humidity = 23

Temperature is too low. Temperature = 14
Very less humidity. Humidity = 28
```