Python Program to Simulate Sensor Values

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from random import randint as ri
from time import sleep as delay
from os import system as cmd
temperatureThresholdRange = range(20,31)
humidityThresholdRange = range(35,75)
def clrscr():
    try:
   cmd("cls")   # for WINDOWS
  except Exception as e:
  cmd("clear") # for LINUX
def getHumidity():
    return(ri(0,100)) # returns moisture in %
def getTemperature():
    return(ri(0,45)) # returns temperature in °C
# Recursion is safer than while(True)
# Coz python has a built-in exception to stop the execution of code after about a 1000 recursive calls
def myRecursiveLoop():
    clrscr()
    t,h = getTemperature(),getHumidity(
      print(f"\n\nCurrent Temperature : {t} °C\nCurrent Humidity : {h} %\n")
      print(f"{'Dangerous levels of Humidity' if (h not in humidityThresholdRange) else ''}\n{'Danger levels of Temperature' if t not in temperatureThresholdRange else ''}\n\n")
 # 1 sec delay before next execution
delay(1)
myRecursiveLoop()
try:
except RecursionError:
   print("Python safely terminated after about a 1000 recursive calls")
    exit()
```

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