

Assignment-2

Python Programming

Question-1:

Build a python code, assume u get temperature and humidity values (generated with randomfunction to a variable) and write a condition to continuously detect alarm in case of high temperature

Solution:

PROGRAM

```
import random
from tempfile import tempdir
#Assign temperature as temp and Humidity as humidity
temp = random.randint(18,28)
humidity =random.randint(45,70)
#use while condition loop to perform the
task while temp >=18 and 28>= temp:
    if (temp> 22 and 28 > temp)and ( humidity > 55 and 70 > humidity):
        print("The temperature is high 'alert'.")
        break
    elif (temp> 22 and 28 > temp)and ( humidity > 40 and 60 > humidity):
        print("The temperature is normal.")
    elif(temp> 18 and 23 > temp)and ( humidity > 45 and 65 > humidity):
        print("The temperature is low")
    else:
        print("Input proper convention.")

temp = random.randint(18,28)
humidity
=random.randint(45,70)
```

Python 3.4.1: main.py - F:\IBM Project\main.py

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```
import random
from tempfile import tempdir
#Assign temperature as temp and Humidity as humidity
temp = random.randint(18,28)
humidity = random.randint(45,70)
#use while condition loop to perform the task
while temp >= 18 and 28 >= temp:
    if (temp > 22 and 28 > temp) and ( humidity > 55 and 70 > humidity):
        print("The temperature is high 'alert'.")
        break
    elif (temp > 22 and 28 > temp) and ( humidity > 40 and 60 > humidity):
        print("The temperature is normal.")
    elif (temp < 18 and 23 > temp) and ( humidity > 45 and 65 > humidity):
        print("The temperature is low")
    else:
        print("Input proper convention.")

temp = random.randint(18,28)
humidity = random.randint(45,70)
```

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Python 3.4.1 Shell

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Python 3.4.1 (v3.4.1:0e311e010fc, May 18 2014, 10:45:13) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
The temperature is low
The temperature is low
Input proper convention.
The temperature is high 'alert'.
>>> |

Ln: 5

Type here to search

29°C Haze 9:39 PM 9/30/2022