Assignment- 2

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Smart waste management for metropolitan cities

Program for temperature and humidity to indicate alarm continuous in high temperature using generated random variables.

Program:

```
import random

while(True):

 tem=random.randint(10,100)

 hum=random.randint(10,100)


 if(tem>=80 and hum<=90):

   print("High temperature values of temperature and humidity is:",tem,hum)

   print("Alarm ON, detected")


 elif(tem<80 and hum>90):

    print("low temperature values of temperature and humidity is:",tem,hum)

    print("Alarm OFF, not detected")
```

Output

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\MR.DEVIL\AppData\Local\Programs\Python\Python310\assignment2.temp.hum.py =
low temperature values of temperature and humidity is: 58 99
Alarm OFF, not detected
High temperature values of temperature and humidity is: 81 71
Alarm ON, detected
High temperature values of temperature and humidity is: 88 29
Alarm ON, detected
High temperature values of temperature and humidity is: 91 16
Alarm ON, detected
low temperature values of temperature and humidity is: 58 99
Alarm OFF, not detected
low temperature values of temperature and humidity is: 65 92
Alarm OFF, not detected
low temperature values of temperature and humidity is: 38 92
Alarm OFF, not detected
low temperature values of temperature and humidity is: 16 98
Alarm OFF, not detected
High temperature values of temperature and humidity is: 85 84
Alarm ON, detected
High temperature values of temperature and humidity is: 83 69
Alarm ON, detected
low temperature values of temperature and humidity is: 71 95
Alarm OFF, not detected
High temperature values of temperature and humidity is: 87 20
Alarm ON, detected
High temperature values of temperature and humidity is: 80 55
Alarm ON, detected
High temperature values of temperature and humidity is: 83 13
Alarm ON, detected
High temperature values of temperature and humidity is: 97 12
```

IDLE Shell 3.10.7

File   Edit   Shell   Debug   Options   Window   Help

```
Alarm ON, detected
High temperature values of temperature and humidity is: 90 67
Alarm ON, detected
High temperature values of temperature and humidity is: 80 10
Alarm ON, detected
High temperature values of temperature and humidity is: 91 43
Alarm ON, detected
low temperature values of temperature and humidity is: 52 92
Alarm OFF, not detected
High temperature values of temperature and humidity is: 84 38
Alarm ON, detected
High temperature values of temperature and humidity is: 93 66
Alarm ON, detected
low temperature values of temperature and humidity is: 33 100
Alarm OFF, not detected
High temperature values of temperature and humidity is: 84 56
Alarm ON, detected
low temperature values of temperature and humidity is: 24 94
Alarm OFF, not detected
High temperature values of temperature and humidity is: 98 60
Alarm ON, detected
low temperature values of temperature and humidity is: 41 93
Alarm OFF, not detected
low temperature values of temperature and humidity is: 26 93
Alarm OFF, not detected
High temperature values of temperature and humidity is: 90 74
Alarm ON, detected
High temperature values of temperature and humidity is: 80 52
Alarm ON, detected
High temperature values of temperature and humidity is: 97 49
Alarm ON, detected
High temperature values of temperature and humidity is: 88 20
Alarm ON, detected
High temperature values of temperature and humidity is: 96 80
Alarm ON, detected
low temperature values of temperature and humidity is: 70 91
Alarm OFF, not detected
High temperature values of temperature and humidity is: 91 19
Alarm ON, detected
High temperature values of temperature and humidity is: 83 13
```

assignment2.temp.hum.py - C:\Users\MR.DEVIL\AppData\Local\Programs\Python\Python31...

File   Edit   Format   Run   Options   Window   Help

```python
import random

while(True):
 tem=random.randint(10,100)
 hum=random.randint(10,100)

 if(tem>=80 and hum<=90):
     print("High temperature values of temperature and humidity is:",tem,hum)
     print("Alarm ON, detected")

 elif(tem<80 and hum>90):
     print("low temperature values of temperature and humidity is:",tem,hum)
     print("Alarm OFF, not detected")
```

Ln: 1   Col: 0