

Assignment -2

Python Programming

Assignment Date	29 September 2022
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Question-1:

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

Solution:

```
import random
i=1
while(i<=10):
    temp=random.randint(-88,58)
    hum=random.randint(1,10)
    hum=hum*10
    print(f'Temperature: {temp}\u00B0C')
    print(f'Humidity: {hum}%')
    if temp>37 and hum>50:
        print("High Temperature:ALARM ON")
    else:
        print("Low Temperature:ALARM OFF")
    i=i+1
```

assignment 2.py - C:\Users\ELCOT\AppData\Local\Programs\Python\Py
File Edit Format Run Options Window Help

```
import random
i=1
while(i<=10):
    temp=random.randint(-88,58)
    hum=random.randint(1,10)
    hum=hum*10
    print(f"Temperature:{temp}\u00B0C")
    print(f"Humidity:{hum}%")
    if temp>37 and hum>50:
        print("High Temperature:ALARM ON")
    else:
        print("Low Temperature:ALARM OFF")
        i=i+1
```

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python37\assignment 2.py
Temperature:35°C
Humidity:40%
Low Temperature:ALARM OFF
Temperature:42°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:24°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:-53°C
Humidity:80%
Low Temperature:ALARM OFF
Temperature:-60°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:0°C
Humidity:90%
Low Temperature:ALARM OFF
Temperature:-87°C
Humidity:10%
Low Temperature:ALARM OFF
Temperature:34°C
Humidity:90%
Low Temperature:ALARM OFF
Temperature:20°C
Humidity:60%
Low Temperature:ALARM OFF
Temperature:-27°C
Humidity:90%
Low Temperature:ALARM OFF
>>> |
```