

Assignment -2
Python Programming

Assignment Date	28 September 2022
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Student Roll Number	962819106019
Maximum Marks	2 Marks

Question

Write a python code, assume you get temperature and humidity values (generate with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

Solution:

```
import random
x=random.uniform(10,90)
y=random.uniform(10,90)
x=round(x,2)
print(x)
if(x>30):
    print("TEMPERATURE IS HIGH
AND ALARM IS ON")
else:
    print("TEMPERATURE IS
LOW")
y=round(y,2)
print(y)
if((y>=30)and(y<50)):
    print("HUMIDITY IS
NORMAL")
elif(y>50):
    print("HUMIDITY IS HIGH")
else:
    print("HUMIDITY IS LOW")
```

```
Temperature.py - C:/Users/Dell/Documents/Temperature.py (3.7.0)
File Edit Format Run Options Window Help

import random
x=random.uniform(10,90)
y=random.uniform(10,90)
x=round(x,2)
print(x)
if(x>30):
    print("TEMPERATURE IS HIGH AND ALARM IS ON")
else:
    print("TEMPERATURE IS LOW")
y=round(y,2)
print(y)
if((y>=30)and(y<50)):
    print("HUMIDITY IS NORMAL")
elif(y>50):
    print("HUMIDITY IS HIGH")
else:
    print("HUMIDITY IS LOW")
|
```

Ln: 18 Col: 0

OUTPUT:

```
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/Dell/Documents/Temperature.py =====
66.02
TEMPERATURE IS HIGH AND ALARM IS ON
72.88
HUMIDITY IS HIGH
>>>
===== RESTART: C:/Users/Dell/Documents/Temperature.py =====
28.58
TEMPERATURE IS LOW
67.1
HUMIDITY IS HIGH
>>> |
```

Ln: 15 Col: 4