

ASSIGNMENT-2

Python Programming

Assignment Date	1 st October 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<=0):

    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
```

```
temperature.py - C:\Users\Gopika\AppData\Local\Programs\Python\Python37\temperature.py (3.7.0)
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\Gopika\AppData\Local\Programs\Python\Python37\temperature.py
Temperature:18°C
Humidity:100%
Low Temperature:ALARM OFF
Temperature:38°C
Humidity:10%
Low Temperature:ALARM OFF
Temperature:-48°C
Humidity:20%
Low Temperature:ALARM OFF
Temperature:-55°C
Humidity:100%
Low Temperature:ALARM OFF
Temperature:13°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:-82°C
Humidity:20%
Low Temperature:ALARM OFF
Temperature:39°C
Humidity:60%
High Temperature:ALARM ON
Temperature:23°C
Humidity:60%
Low Temperature:ALARM OFF
Temperature:-9°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:16°C
Humidity:70%
Low Temperature:ALARM OFF
Temperature:-32°C
Humidity:70%
Low Temperature:ALARM OFF
>>> |

Ln: 38 Col: 4
```