

ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	27 September 2022
Student Name	ANU L S
Student Roll Number	960219106025
Maximum Marks	2 Marks

QUESTION

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
```

```
while(True):
```

```
    a=random.randint(10,99)
```

```
    b=random.randint(10,99)
```

```
    if(a>35 and b>60):
```

```
        print("High temperature and humidity of:",a,b,"%","alarm is on")
```

```
    elif(a<35 and b<60):
```

```
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")
```

```
        break
```

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/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
Normal temperature and humidity of: 15 23 % alarm is off
>>>
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
High temperature and humidity of: 54 91 % alarm is on
High temperature and humidity of: 41 69 % alarm is on
High temperature and humidity of: 69 88 % alarm is on
High temperature and humidity of: 98 91 % alarm is on
High temperature and humidity of: 81 84 % alarm is on
Normal temperature and humidity of: 14 33 % alarm is off
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
Normal temperature and humidity of: 22 18 % alarm is off
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
High temperature and humidity of: 46 87 % alarm is on
High temperature and humidity of: 91 99 % alarm is on
High temperature and humidity of: 91 81 % alarm is on
Normal temperature and humidity of: 30 29 % alarm is off
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
High temperature and humidity of: 55 80 % alarm is on
Normal temperature and humidity of: 11 52 % alarm is off
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
High temperature and humidity of: 43 95 % alarm is on
Normal temperature and humidity of: 24 21 % alarm is off
>>>
RESTART: C:/Users/anuls/AppData/Local/Programs/Python/Python37/assignment2.py
Normal temperature and humidity of: 15 18 % alarm is off
>>>
```