

Assignment -2
PYTHON PROGRAMMING

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

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:

PROGRAM:

```
import random
```

```
while (True):
```

```
    temperature1=20
```

```
    temperature2 =45
```

```
    temperature3 =63
```

```
    temperature4 =78
```

```
    temperature5 =99
```

```
    humidity1=56
```

```
    humidity2=75
```

```
    humidity3=78
```

```
    humidity4=82
```

```
    humidity5=120
```

```
    temperature=random.randint(5,100)
```

```
    humidity=random.randint(5,200)
```

```
print('Temperature=',temperature1,temperature2,temperature3,temperature4,tempera  
ture5)
```

```
print('Humidity=',humidity1,humidity2,humidity3,humidity4,humidity5)

if(temperature>35 and humidity>60):

    print('high temperature and humidity of' ,temperature,humidity,'%','alarm is
on')

elif (temperature<35 and humidity<60):

    print('Normal temperature and humidity of' ,temperature,humidity,'%','alarm is
off')

    break
```

OUTPUT:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (tags/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\Lenovo\Documents\ASSIGNMENT NO-2.python.py =====
Temperature= 20 45 63 78 99
Humidity= 56 75 78 82 120
high temperature and humidity of temperature,humidity % alaram is on
Temperature= 20 45 63 78 99
Humidity= 56 75 78 82 120
Temperature= 20 45 63 78 99
Humidity= 56 75 78 82 120
Normal temperature and humidity of temperature,humidity % alaram is off
>>> |
```



```
ASSIGNMENT NO-2.python.py - C:\Users\Lenovo\Documents\ASSIGNMENT NO-2.python.py (3.7.0)
File Edit Format Run Options Window Help
import random
while (True):
    temperature1=20
    temperature2 =45
    temperature3 =63
    temperature4 =78
    temperature5 =99
    humidity1=56
    humidity2=75
    humidity3=78
    humidity4=82
    humidity5=120
    temperature=random.randint(5,100)
    humidity=random.randint(5,200)
    print('Temperature=',temperature1,temperature2,temperature3,temperature4,temperature5)
    print('Humidity=',humidity1,humidity2,humidity3,humidity4,humidity5)
    if (temperature>35 and humidity>60):
        print('high temperature and humidity of' , 'temperature,humidity', '%','alarm is on')
    elif (temperature<35 and humidity<60):
        print('Normal temperature and humidity of', 'temperature,humidity', '%','alarm is off')
        break
```

