

Assignment -2

Python program

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Maximum Marks	2 Marks

1. Build a python code :

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

CODE SOLUTION:

```
import random
```

```
def temperature():  
    value=random.randint(25,100)  
    return value
```

```
t=temperature()
```

```
def humidity():  
    range=random.randint(40,100)  
    return range
```

```
h=humidity()
```

```
#TEMPERATURE
```

```
if t>30:  
    print("High temperature is detected")  
elif t==30:  
    print("Temperature reached maximum threshold of 30 degrees celsius")  
else:  
    print("Temperature is good")
```

```
#HUMIDITY
```

```
if h>65 :  
    print("High humidity detected")  
elif t == 65:  
    print("Humidity reached maximum threshold of 65 percent")  
else:  
    print("Humidity is good")
```

Output

assignment02.py - D:/IBM PROJECT/assignment02.py (3.9.8)

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```
import random

def temperature():
    value = random.randint(25,100)
    return value

t=temperature()

def humidity():
    range=random.randint(40,100)
    return range

h=humidity()

#TEMPERATURE

if t>30:
    print("High temperature is detetcted")
elif t==30:
    print("Temprature reached maximum thershold  of 30 degrees celsius")
else:
    print("Temperature is good")

#HUMIDITY

if h>65 :
    print("High humidity detetcted")
elif t == 65:
    print("Humidity reached maximum thershold of 65 percent")
else:
    print("Humidity is good")
```

IDLE Shell 3.9.8

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Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: D:/IBM PROJECT/assignment02.py =====

High temperature is detetcted

Humidity is good

>>> |