

## Assignment -2

### Python Programming

Assignment Date	24 September 2022
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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
def temperature():
    value=random.randint(25,100)
    return value
t=temperature() t=int(input("Enter the
temperature value"))

def humidity():
    range=random.randint(40,100)
    return range
h=humidity() h=int(input("Enter the
humidity value"))

if t>30: print("High temperature
detected") print("Buzzer on,alarm
sound is high")
elif t==30:
    print("Temperature reached maximum threshold of 30 degrees celsius")
else:
    print("Temperature is good")
#for Humidity if h>65 : print("High
humidity detected") print("Buzzer
on,alarm sound is high")
elif t == 65: print("Humidity reached maximum threshold of 65
percent") else:
    print("Humidity is good")
```



```
BMPLY.py C:/Users/balsa/AppData/Local/Programs/Python/Python310/BMPLY.py (3.10.5)
File Edit Format Run Options Window Help

import random
def temperature():
    value=random.randint(25,100)
    return value
t=temperature()
t=int(input("Enter the temperature value"))

def humidity():
    range=random.randint(40,100)
    return range
h=humidity()
h=int(input("Enter the humidity value"))

if t>30:
    print("High temperature detected")
    print("Buzzer on,alarm sound is high")
elif t==30:
    print("Temperature reached maximum threshold of 30 degrees celsius")
else:
    print("Temperature is good")
for Humidity
if h>65 :
    print("High humidity detected")
    print("Buzzer on,alarm sound is high")
elif h == 65:
    print("Humidity reached maximum threshold of 65 percent")
else:
    print("Humidity is good")
```

```
IDLE Shell 3.10.5
File Edit Shell Debug Options Window Help
Python 3.10.5 (tags/v3.10.5:f377153, Jun  6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:/Users/balsa/AppData/Local/Programs/Python/Python310/BMPLY.py ===
Enter the temperature value33
Enter the humidity value44
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
>>>
```