

Assignment -2
Python Programming

Assignment Date	25 September 2022
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Maximum Marks	4 Marks

Question-1:

Build a python code, assume you 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:
    t=random.randint(25,100)
    h=random.randint(40,100)
    print ("-----")
    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")
```

Output:

```

C:\Users\91824\Desktop>python 3.10.6
Python 3.10.6 [tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49] [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/91824/Desktop/New folder (2)/Assignment2.py =====
-----
High temperature detected
Buzzer on,alarm sound is high
High humidity detected
Buzzer on,alarm sound is high
-----
High temperature detected
Buzzer on,alarm sound is high
High humidity detected
Buzzer on,alarm sound is high
-----
High temperature detected
Buzzer on,alarm sound is high
High humidity detected
Buzzer on,alarm sound is high
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----
Temperature is good
Humidity is good
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----
High temperature detected
Buzzer on,alarm sound is high
Humidity is good
-----

```