

**Assignment -2**  
Python Programming

Assignment Date	19 September 2022
Student Name	Sanjai kumar S
Student Roll Number	722819106084
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:**

```
import random

import time

while (1):

    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60 and humidity>60:
        print("ALERT!! Detected temperature: "+str(temp)+"°C"+"
"+"Detected humidity: "+str(humidity))
    elif temp > 60:
        print("ALERT!! Detected temperature: " + str(temp) + "°C")
    elif humidity > 60:
        print("ALERT!! Detected humidity: "+str(humidity))
    time.sleep(1)
```

temp-humidity tt.py

1import random  
2import time  
3  
4while (1):  
5 temp = random.randint(0, 100)  
6 humidity = random.randint(0, 100)  
7 if temp>60 and humidity>60:  
8 print("ALERT!! Detected temperature: "+str(temp)+"°C+" "+str(humidity))  
9 elif temp > 60:  
10 print("ALERT!! Detected temperature: " + str(temp) + "°C")  
11 elif humidity > 60:  
12 print("ALERT!! Detected humidity: "+str(humidity))  
13 time.sleep(1)

while (1)  
ALERT!! Detected temperature: 69°C  
ALERT!! Detected temperature: 71°C  
ALERT!! Detected temperature: 92°C  
ALERT!! Detected temperature: 81°C  
ALERT!! Detected humidity: 80  
ALERT!! Detected temperature: 70°C  
ALERT!! Detected temperature: 93°C  
ALERT!! Detected temperature: 69°C  
ALERT!! Detected humidity: 66  
ALERT!! Detected temperature: 94°C Detected humidity: 80  
ALERT!! Detected temperature: 72°C  
ALERT!! Detected humidity: 78  
ALERT!! Detected temperature: 61°C  
ALERT!! Detected temperature: 92°C  
ALERT!! Detected humidity: 89  
ALERT!! Detected temperature: 68°C Detected humidity: 94  
ALERT!! Detected temperature: 90°C Detected humidity: 62  
ALERT!! Detected humidity: 82  
ALERT!! Detected temperature: 98°C Detected humidity: 81  
ALERT!! Detected humidity: 92  
ALERT!! Detected temperature: 97°C  
ALERT!! Detected humidity: 69  
ALERT!! Detected temperature: 91°C  
ALERT!! Detected humidity: 90  
ALERT!! Detected temperature: 62°C Detected humidity: 70  
ALERT!! Detected temperature: 92°C Detected humidity: 70  
ALERT!! Detected temperature: 80°C Detected humidity: 99

Version Control Run TODO Problems Terminal Python Packages Python Console Services  
PEP 8: W292 no newline at end of file

13:18 LF UTF-8 4 spaces Python 3.10 (temp-humidity)