

Assignment -2
Python Programming

Assignment Date	19 September 2022
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Student Roll Number	722819106072
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  it.py
1 import random
2 import time
3
4 while (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)
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15 while (1):
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```

Run: tt x

```
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)