

Assignment -2
Python Programming

Assignment Date	17 September 2022
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Maximum Marks	2 Marks

Question:

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

temp_threshold = 30

humid_threshold = 40

var = 0

while True:

    t = random.randint(0,60)

    h = random.randint(10,90)

    print("temp: ", t, "humid: ", h ,end=" ")

    if (random.randint(0,60) > temp_threshold) and (random.randint(10,90)):

        print("Alarm detected")

    print()
```

```
>>> import random
>>> temp_threshold = 30
>>> humid_threshold = 40
>>> var = 0
>>> while True:
...     t = random.randint(0,60)
...     h = random.randint(10,90)
...     print("temp: ", t, "humid: ", h ,end=" ")
...     if (random.randint(0,60) > temp_threshold) and (random.randint(10,90)):
...         print("Alarm detected")
...     print()
...
temp:  54 humid:  34 Alarm detected

temp:  54 humid:  75
temp:  1 humid:  27
temp:  54 humid:  87
temp:  32 humid:  39
temp:  0 humid:  74
temp:  42 humid:  14 Alarm detected

temp:  52 humid:  10
temp:  38 humid:  59
temp:  40 humid:  50
temp:  27 humid:  26 Alarm detected
```