

NALAIYA THIRAN

ASSIGNMENT-2

USER CASE: PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

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Build a python code, Assume you get temperature and humidity values (generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature

CODE:

"Let us consider normal temperature=30 Celsius and normal humidity=40%"

```
import random

Temperature=random.randint(1,100)

Humidity=random.randint(1,100)

print(Temperature)

print(Humidity)

if((Temperature>30)&(Humidity>40)):

    print("Temperature and Humidity are HIGH!!! ")

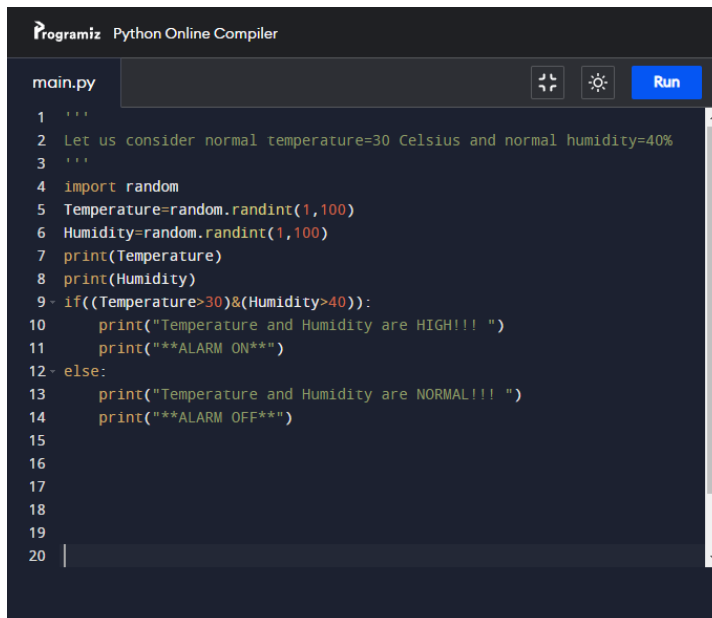
    print("**ALARM ON**")

else:

    print("Temperature and Humidity are NORMAL!!! ")

    print("**ALARM OFF**")
```

OUTPUT:

A screenshot of a web-based Python compiler interface. The title bar reads "Programiz Python Online Compiler". Below the title bar, there is a tab labeled "main.py" and a "Run" button. The code editor contains the following Python code:

```
1 '''
2 Let us consider normal temperature=30 Celsius and normal humidity=40%
3 '''
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print(Temperature)
8 print(Humidity)
9 if((Temperature>30)&(Humidity>40)):
10     print("Temperature and Humidity are HIGH!!! ")
11     print("**ALARM ON**")
12 else:
13     print("Temperature and Humidity are NORMAL!!! ")
14     print("**ALARM OFF**")
15
16
17
18
19
20
```

The code is syntactically correct and matches the code provided in the previous block. The output area is currently empty, indicating that the code has not yet been executed.

Interactive Python Course

Shell

Clear

```
34
4
Temperature and Humidity are NORMAL!!!
**ALARM OFF**
>
```

Programiz Python Online Compiler

main.py

Run

```
1 '''
2 Let us consider normal temperature=30 Celsius and normal humidity=40%
3 '''
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print(Temperature)
8 print(Humidity)
9 if((Temperature>30)&(Humidity>40)):
10     print("Temperature and Humidity are HIGH!!! ")
11     print("***ALARM ON**")
12 else:
13     print("Temperature and Humidity are NORMAL!!! ")
14     print("***ALARM OFF**")
15
16
17
18
19
20
```

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Shell

Clear

```
92
83
Temperature and Humidity are HIGH!!!
**ALARM ON**
>
```