

NALAIYA THIRAN

ASSIGNMENT-1

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!!! ")

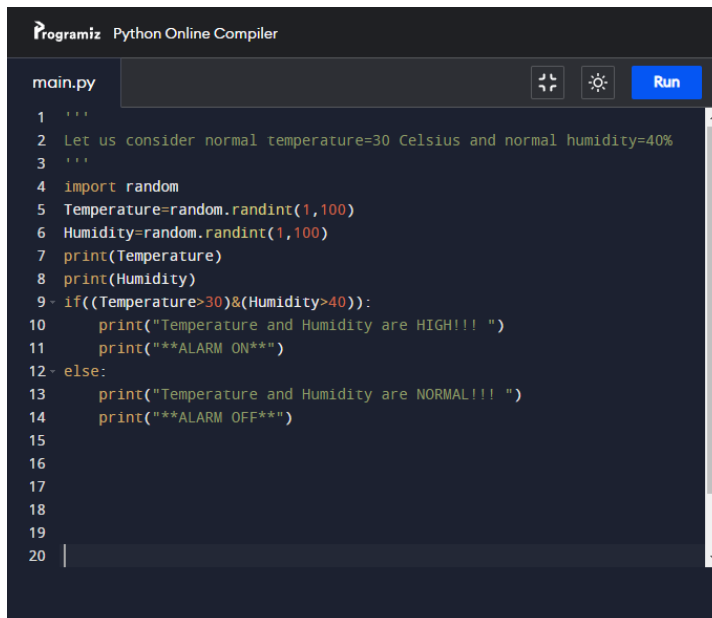
    print("**ALARM ON**")

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 blue "Run" button. The main area contains the Python code from the previous block, with line numbers 1 through 20 on the left. The code is syntax-highlighted. The output of the program is visible in a separate pane on the right, showing the generated temperature and humidity values and the resulting alarm status.

```
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
```

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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Clear

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