

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!!! ")
```

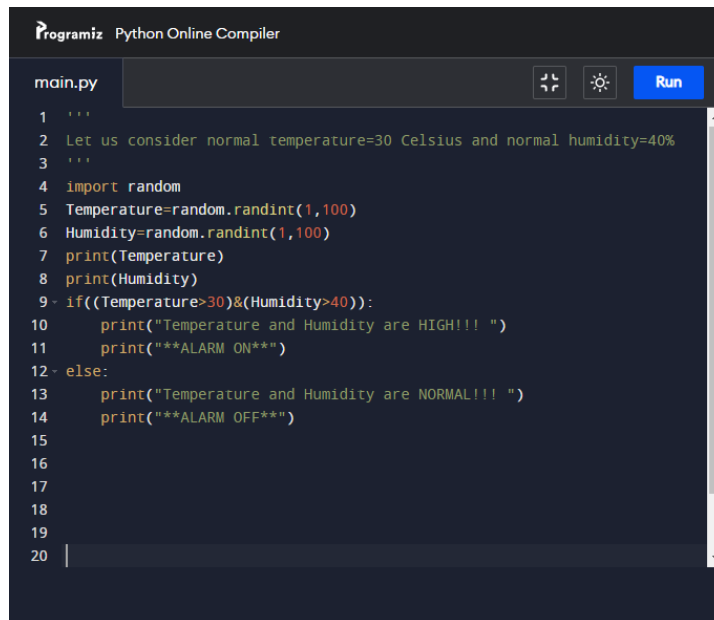
```
    print("**ALARM ON**")
```

```
else:
```

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

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

OUTPUT:

A screenshot of a web-based Python compiler interface. The title bar says "Programiz Python Online Compiler". The code editor shows the Python code from the previous block, with line numbers 1 through 20. The code imports the random module, generates random temperature and humidity values, and prints them. It then uses an if-else statement to check if the temperature is above 30 and humidity is above 40. If true, it prints "Temperature and Humidity are HIGH!!! " and "**ALARM ON**". Otherwise, it prints "Temperature and Humidity are NORMAL!!! " and "**ALARM OFF**". The output area on the right is empty, indicating the code has not been executed yet. There are "Run" and "Clear" buttons in the top right of the editor area.

```
main.py  Run  Clear

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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Shell

Clear

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