

ASSIGNMENT-2

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QUESTION:

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

CODE:

```
import random

import time

while True:

    temperature = random.randint(1,100)

    humidity = random.randint(1,100)

    print("Temperature: ", temperature)

    print("Humidity: ", humidity)

    if temperature >= 60 and (30 < humidity < 60):

        print("Alarm ON!")

    else:

        print("Alarm OFF!")

        time.sleep(2)
```

```
main.py
1 import random
2 import time
3
4 while True:
5     temperature = random.randint(1,100)
6     humidity = random.randint(1,100)
7     print("Temperature: ", temperature)
8     print("Humidity: ", humidity)
9     if temperature >= 60 and (30 < humidity < 60):
10         print("Alarm ON!")
11
12     else:
13         print("Alarm OFF!")
14
15     time.sleep(2)
16
17
```

OUTPUT:

```
main.py
1 import random
2 import time
3
4 while True:
5     temperature = random.randint(1,100)
6     humidity = random.randint(1,100)
7     print("Temperature: ", temperature)
8     print("Humidity: ", humidity)
9     if temperature >= 60 and (30 < humidity < 60):
10         print("Alarm ON!")
11
12     else:
13         print("Alarm OFF!")
14
15     time.sleep(2)
16
```

Humidity: 61
Alarm OFF!
Temperature: 56
Humidity: 15
Alarm OFF!
Temperature: 88
Humidity: 93
Alarm ON!
Temperature: 25
Humidity: 30
Alarm OFF!
Temperature: 24
Humidity: 67
Alarm OFF!