

## Assignment -2

### High Temperature Detector

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#### **Problem :**

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

#### **Code :**

```
import random
from time import sleep
def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature

humidity = temperature = 0
i=0
while i<=10:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    if temperature>=40:
        print('Alarm Activated : High Temperature Detected\n-----')
        print('-----')
```

i=i+1

sleep(0.50)

### **Output:**

```
Humidity: 22 Temperature: 38
Humidity: 20 Temperature: 32
Humidity: 36 Temperature: 50
Alarm Activated : High Temperature Detected
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Humidity: 11 Temperature: 12
Humidity: 14 Temperature: 46
Alarm Activated : High Temperature Detected
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Humidity: 28 Temperature: 50
Alarm Activated : High Temperature Detected
-----
Humidity: 35 Temperature: 41
Alarm Activated : High Temperature Detected
-----
Humidity: 42 Temperature: 47
Alarm Activated : High Temperature Detected
-----
Humidity: 11 Temperature: 19
Humidity: 31 Temperature: 34
Humidity: 16 Temperature: 26
>
```

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