

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: 43 Temperature: 48
Alarm Activated : High Temperature Detected
-----
Humidity: 13 Temperature: 14
Humidity: 16 Temperature: 16
Humidity: 15 Temperature: 32
Humidity: 15 Temperature: 50
Alarm Activated : High Temperature Detected
-----
Humidity: 37 Temperature: 42
Alarm Activated : High Temperature Detected
-----
Humidity: 20 Temperature: 28
Humidity: 19 Temperature: 38
Humidity: 36 Temperature: 39
Humidity: 11 Temperature: 11
Humidity: 10 Temperature: 22
```