

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 :

```
In [1]: runfile('C:/Users/Jagdish/Downloads/IBM_Assignment2.py', wdir='C:/Users/Jagdish/Downloads')
Humidity: 22 Temperature: 30
Humidity: 12 Temperature: 12
Humidity: 26 Temperature: 30
Humidity: 28 Temperature: 40
Alarm Activated : High Temperature Detected
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Humidity: 26 Temperature: 50
Alarm Activated : High Temperature Detected
-----
Humidity: 12 Temperature: 14
Humidity: 12 Temperature: 23
Humidity: 23 Temperature: 32
Humidity: 13 Temperature: 25
Humidity: 13 Temperature: 21
Humidity: 23 Temperature: 44
Alarm Activated : High Temperature Detected
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```