Assignment – II

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Question:

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

Solution: Python Code:

```
import random
import time
while True:
    temp=random.randint(1,50)
    humudity=random.randint(1,80)
    print("Temperature: ",temp)
    print("Humudity: ",humudity)
    if((temp>15 and temp<50) and (humudity>30 and humudity<60)):
        print("Room's Temperature and Humudity is Normal")
        print("Alarm OFF")
    else:
        print("Room's Temperature and Humudity is Abnormal")
        print("Alarm ON")
    time.sleep(1)</pre>
```

Output:

```
Temperature: 41
Temperature: 38
                                                  Humudity: 53
Humudity: 67
                                                  Room's Temperature and Humudity is Normal
Room's Temperature and Humudity is Abnormal
                                                  Alarm OFF
Alarm ON
                                                  Temperature:
Temperature: 3
                                                  Humudity: 25
Humudity: 3
                                                  Room's Temperature and Humudity is Abnormal
Room's Temperature and Humudity is Abnormal
                                                  Alarm ON
Alarm ON
                                                  Temperature:
Temperature: 42
                                                  Humudity: 2
Humudity: 48
                                                  Room's Temperature and Humudity is Abnormal
Room's Temperature and Humudity is Normal
                                                  Alarm ON
Alarm OFF
                                                  Temperature:
Temperature: 28
                                                  Humudity: 40
Humudity: 51
                                                  Room's Temperature and Humudity is Normal
Room's Temperature and Humudity is Normal
Alarm OFF
```