

**RMK College of Engineering and
Technology
IBM Nalaiya Thiran**

Assignment - 2

Build a python code, assume you get temperature and humidity values (generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature

Code :

```
import random
Temperature=random.randint(1,100)
Humidity=random.randint(1,100)
print(Temperature)
print(Humidity)
if ((Temperature>38)&(Humidity>40)):
    print("Temperature and Humidity are HIGH ! ")
    print("*** ALARM ON ***")
else:
    print("Temperature and Humidity are NORMAL ! ")
    print("*** ALARM OFF ***")
```

Output:



The image displays two screenshots of a Python IDE, likely PyCharm, showing the execution of a script named `main.py`. The script generates random temperature and humidity values and checks if they are high enough to trigger an alarm.

First Screenshot:

```
1 import random
2 Temperature=random.randint(1,100)
3 Humidity=random.randint(1,100)
4 print(Temperature)
5 print(Humidity)
6 if((Temperature>38)&(Humidity>40)):
7     print("Temperature and Humidity are HIGH ! ")
8     print("*** ALARM ON ***")
9 else:
10    print("Temperature and Humidity are NORMAL ! ")
11    print("*** ALARM OFF ***")
```

The output in the Shell window shows the following values:

```
35
54
Temperature and Humidity are NORMAL !
*** ALARM OFF ***
>
```

Second Screenshot:

```
1 import random
2 Temperature=random.randint(1,100)
3 Humidity=random.randint(1,100)
4 print(Temperature)
5 print(Humidity)
6 if((Temperature>38)&(Humidity>40)):
7     print("Temperature and Humidity are HIGH ! ")
8     print("*** ALARM ON ***")
9 else:
10    print("Temperature and Humidity are NORMAL ! ")
11    print("*** ALARM OFF ***")
```

The output in the Shell window shows the following values:

```
59
86
Temperature and Humidity are HIGH !
*** ALARM ON ***
>
```

done by:
B.V.S.Nishitha
111619106016