

## IBM Assignment-2

Name: Guruatchaya V(M3)

Batch No:B7-1A3E

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

Code:

```
import random

for i in range(0,10):

    temp=random.randint(0,100)

    humid=random.randint(0,100)

    print("temperature level:"+str(temp))

    print("humidity level:"+str(humid))

    if(temp==range(27,38) and humid==range(30,50)):

        print("NORMAL TEMPERATURE")

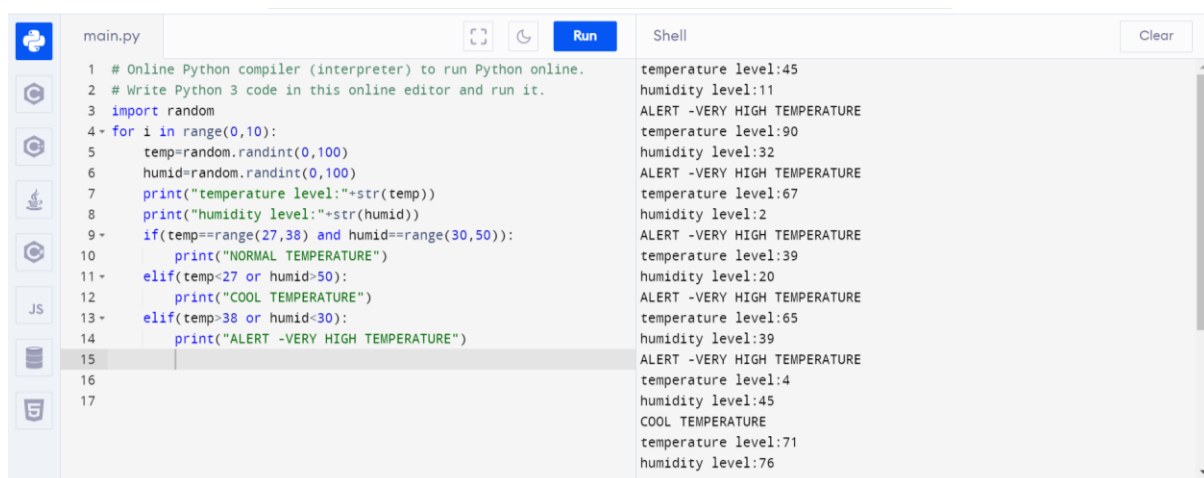
    elif(temp<27 or humid>50):

        print("COOL TEMPERATURE")

    elif(temp>38 or humid<30):

        print("ALERT -VERY HIGH TEMPERATURE")
```

Output:



The screenshot shows an online Python compiler interface. On the left, there's a sidebar with icons for Python, JavaScript, and a file explorer. The main area is split into two panes. The left pane, titled 'main.py', contains the Python code from the previous block. The right pane, titled 'Shell', shows the output of the code. The output consists of 10 lines of text, each representing one iteration of the loop. Each line contains the temperature level, the humidity level, and a status message based on the conditions in the code. The status messages are 'NORMAL TEMPERATURE', 'COOL TEMPERATURE', and 'ALERT -VERY HIGH TEMPERATURE'.

```
1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 for i in range(0,10):
5     temp=random.randint(0,100)
6     humid=random.randint(0,100)
7     print("temperature level:"+str(temp))
8     print("humidity level:"+str(humid))
9     if(temp==range(27,38) and humid==range(30,50)):
10         print("NORMAL TEMPERATURE")
11     elif(temp<27 or humid>50):
12         print("COOL TEMPERATURE")
13     elif(temp>38 or humid<30):
14         print("ALERT -VERY HIGH TEMPERATURE")
15
16
17
```

temperature level:45  
humidity level:11  
ALERT -VERY HIGH TEMPERATURE  
temperature level:90  
humidity level:32  
ALERT -VERY HIGH TEMPERATURE  
temperature level:67  
humidity level:2  
ALERT -VERY HIGH TEMPERATURE  
temperature level:39  
humidity level:20  
ALERT -VERY HIGH TEMPERATURE  
temperature level:65  
humidity level:39  
ALERT -VERY HIGH TEMPERATURE  
temperature level:4  
humidity level:45  
COOL TEMPERATURE  
temperature level:71  
humidity level:76