

IBM Assignment-2

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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)):

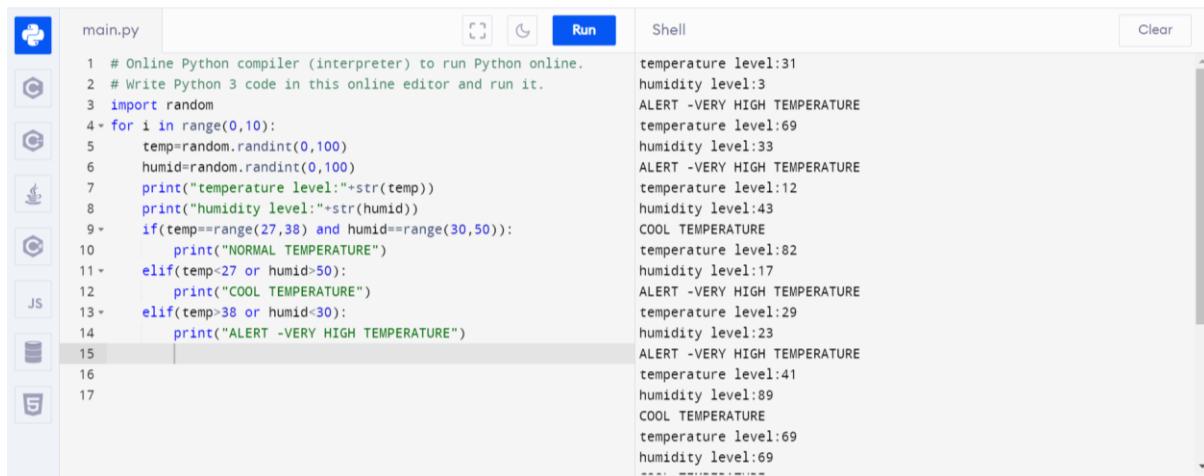
        print("NORMAL TEMPERATURE")

    elif(temp<27 or humid>50):

        print("COOL TEMPERATURE")

    elif(temp>38 or humid<30):

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



The screenshot shows an online Python compiler interface. On the left, there's a file browser with 'main.py' selected. The code editor window contains the provided Python script. The 'Run' button is highlighted in blue. To the right is a 'Shell' window displaying the execution results. The output shows 10 iterations of temperature and humidity generation and classification. The first few lines of the output are as follows:

```
temperature level:31
humidity level:3
ALERT -VERY HIGH TEMPERATURE
temperature level:69
humidity level:33
ALERT -VERY HIGH TEMPERATURE
temperature level:12
humidity level:43
COOL TEMPERATURE
temperature level:82
humidity level:17
ALERT -VERY HIGH TEMPERATURE
temperature level:29
humidity level:23
ALERT -VERY HIGH TEMPERATURE
temperature level:41
humidity level:89
COOL TEMPERATURE
temperature level:69
humidity level:69
```