

IBM Assignment-2

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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)):

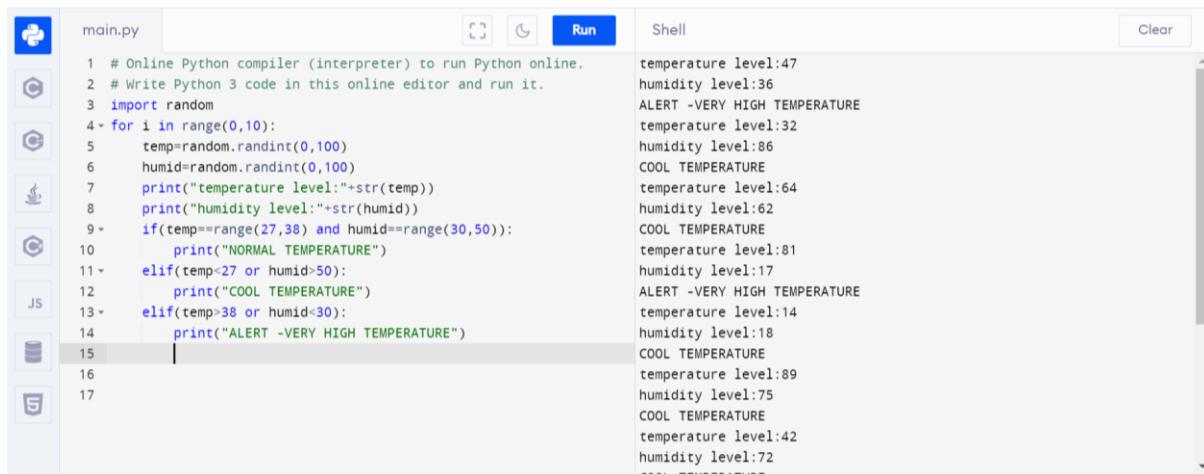
        print("NORMAL TEMPERATURE")

    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 a file named 'main.py'. 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 iteration is as follows:

```
temperature level:47
humidity level:36
ALERT -VERY HIGH TEMPERATURE
temperature level:32
humidity level:86
COOL TEMPERATURE
temperature level:64
humidity level:62
COOL TEMPERATURE
temperature level:81
humidity level:17
ALERT -VERY HIGH TEMPERATURE
temperature level:14
humidity level:18
COOL TEMPERATURE
temperature level:89
humidity level:75
COOL TEMPERATURE
temperature level:42
humidity level:72
```