Assignment - 2

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Maximum Marks	2 Marks

Question :

Build a python code, Assume you 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 :

```
import time
i=0
While (i<=1440):
    i=i+1
    time.sleep(10)
    import random
    temp=random.randint(0,30)
    humid=random.randit(1,1000)if
    temp<=15:
        print (temp,"degree the temperature is low")
    elif temp<=25:
        print (temp,"degree the temperature is normal")
    else:
        print (temp,"degree the temperature is high")if
    humid<=50:
        print (humid,"the humidity is low")
    elif humid<=80:
        print (humid,"the humidity is normal")
    else:
        print (humid,"the humidity is high”)
```

Output:

```
import time
i=0
while (i<=1440):
    i=i+1
    time.sleep(10)

    import random
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print (temp, "degree the temperature is low")
    elif temp<=25:
        print (temp, "degree the temperature is normal")
    else:
        print (temp, "degree the temperature is high")
    if humid<=50:
        print (humid, "the humidity is low")
    elif humid<=80:
        print (humid, "the humidity is normal")
    else:
        print (humid, "the humidity is high")
```

```
*IDLE Shell 3.10.7*
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/Muthusamy/Desktop/murali.py ================
29 degree the temperature is high
30 the humidity is low
12 degree the temperature is low
81 the humidity is high
25 degree the temperature is normal
42 the humidity is low
25 degree the temperature is normal
32 the humidity is low
7 degree the temperature is low
16 the humidity is low
8 degree the temperature is low
63 the humidity is normal
                                                                        Ln: 5  Col: 0
```