

Assignment Date	29 September 2022
Student Name	C. Nivetha
Student Roll Number	960219104073
Maximum Marks	2 Marks

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.

PROGRAM:

```
import random

i=5 while(True):
    p=random.randint(10,99)
    q=random.randint(10,99) if(p>40
and q<70):
        print("High Temperature And Humidity of:",p,q,"%Alarm is ON")
    elif(p<40 and q>70):
        print("Normal Temperature And Humidity of:",p,q,"%Alarm is OFF")
    if(i<50):    i=i+1    else:
        break
```

OUTPUT:

```
Temperature and humidity.py - C:/Python/IBM/Temperature and humidity.py (3.7.0)
File Edit Format Run Options Window Help

import random
i=5
while (True):
    p=random.randint(10,99)
    q=random.randint(10,99)
    if(p>40 and q<70):
        print("High Temperature And Humidity of:",p,q,"Alarm is ON")
    elif(p<40 and q>70):
        print("Normal Temperature And Humidity of:",p,q,"Alarm is OFF")
    if(i<50):
        i=i+1
    else:
        break
```

Ln: 12 Col: 4

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python/IBM/Temperature and humidity.py =====
Normal Temperature And Humidity of: 37 96 Alarm is OFF
Normal Temperature And Humidity of: 19 71 Alarm is OFF
High Temperature And Humidity of: 51 24 Alarm is ON
High Temperature And Humidity of: 96 18 Alarm is ON
High Temperature And Humidity of: 53 22 Alarm is ON
High Temperature And Humidity of: 79 55 Alarm is ON
High Temperature And Humidity of: 90 11 Alarm is ON
High Temperature And Humidity of: 98 44 Alarm is ON
High Temperature And Humidity of: 71 40 Alarm is ON
High Temperature And Humidity of: 61 34 Alarm is ON
High Temperature And Humidity of: 60 43 Alarm is ON
High Temperature And Humidity of: 83 41 Alarm is ON
High Temperature And Humidity of: 81 28 Alarm is ON
High Temperature And Humidity of: 84 69 Alarm is ON
High Temperature And Humidity of: 94 18 Alarm is ON
High Temperature And Humidity of: 57 44 Alarm is ON
High Temperature And Humidity of: 43 58 Alarm is ON
Normal Temperature And Humidity of: 35 99 Alarm is OFF
High Temperature And Humidity of: 84 27 Alarm is ON
Normal Temperature And Humidity of: 28 74 Alarm is OFF
High Temperature And Humidity of: 81 35 Alarm is ON
Normal Temperature And Humidity of: 32 93 Alarm is OFF
High Temperature And Humidity of: 90 22 Alarm is ON
High Temperature And Humidity of: 78 42 Alarm is ON
High Temperature And Humidity of: 77 51 Alarm is ON
High Temperature And Humidity of: 68 47 Alarm is ON
High Temperature And Humidity of: 59 20 Alarm is ON
High Temperature And Humidity of: 64 15 Alarm is ON
>>> |
```

Ln: 33 Col: 4