IBM-NALAYATHIRAN

ASSIGNMENT- 2

Assignment Date	29 September 2022
Student Name	S.Shajitha
Student Roll Number	960219104092
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
```

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Python 3.7.0 Shell

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```
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: 54 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
>>>
```

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