

# **ASSIGNMENT -2**

## **Python Programming**

Assignment Date	29 September 2022
Student Name	Sruthi.S
Student Roll Number	960219104105
Marks	2 Marks

### **Question:**

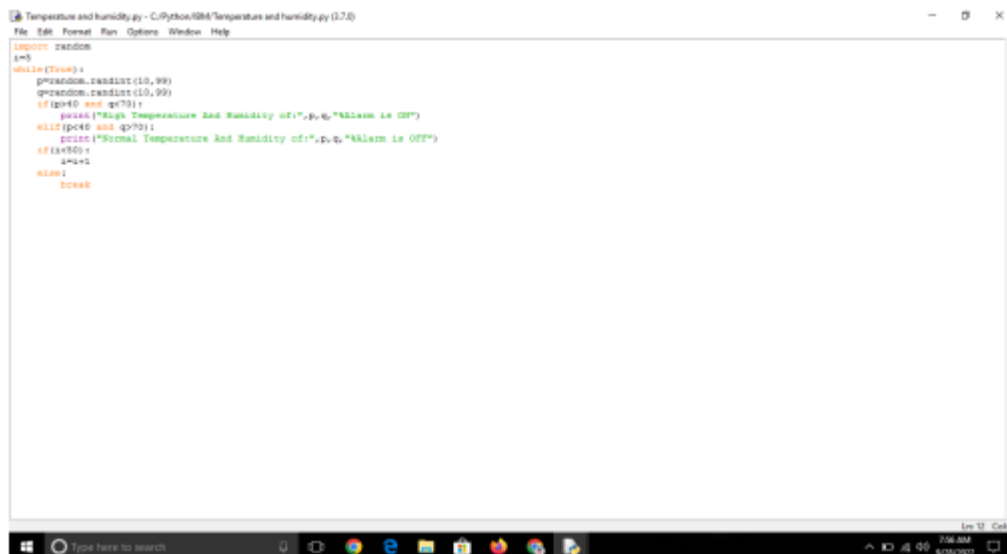
Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

### **PROGRAM:**

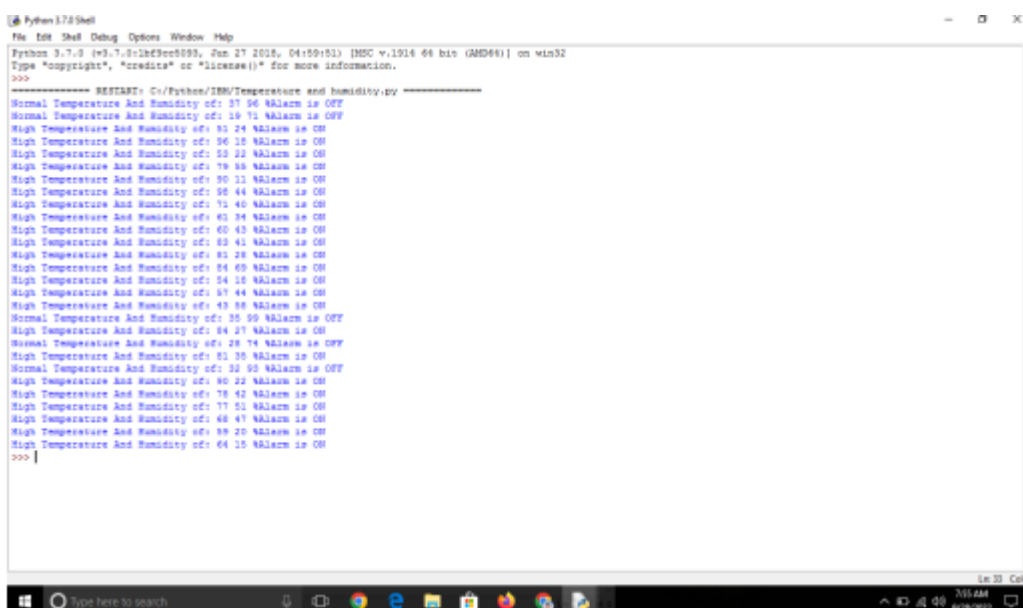
```
import random
i=5
while(True):
    p=random.randint(10,99)
    q=random.randint(10,99)
    if(p>40 and q<70):
        print("High Temperature And Humidity of:",p,q,"%Alarm is ON")
    elif(p<40 and q>70):
        print("Normal Temperature And Humidity of:",p,q,"%Alarm is OFF")
```

```
if(i<50):  
    i=i+1  
else:  
break
```

## OUTPUT:



```
Temperature and humidity.py - C:/Python/IDM/temperature and humidity.py (3.7.0)  
File Edit Format Run Options Window Help  
import random  
i=5  
while(i>0):  
    p=random.randint(10,99)  
    q=random.randint(10,99)  
    if(p<40 and q<70):  
        print("Normal Temperature And Humidity of:",p,q,"Alarm is OFF")  
    elif(p<40 and q>70):  
        print("Normal Temperature And Humidity of:",p,q,"Alarm is OFF")  
    elif(p>40 and q<70):  
        print("High Temperature And Humidity of:",p,q,"Alarm is ON")  
    else:  
        print("High Temperature And Humidity of:",p,q,"Alarm is ON")  
    i=i-1  
break  
Normal Temperature And Humidity of: 37.94 Alarm is OFF  
Normal Temperature And Humidity of: 39.71 Alarm is OFF  
High Temperature And Humidity of: 82.24 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: 78.88 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: 81.34 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: 84.60 Alarm is ON  
High Temperature And Humidity of: 54.18 Alarm is ON  
High Temperature And Humidity of: 87.44 Alarm is ON  
High Temperature And Humidity of: 43.88 Alarm is ON  
Normal Temperature And Humidity of: 35.50 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: 32.50 Alarm is OFF  
High Temperature And Humidity of: 80.22 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: 88.20 Alarm is ON  
High Temperature And Humidity of: 64.15 Alarm is ON
```



```
Python 3.7.0 Shell  
File Edit Shell Debug Options Window Help  
Python 3.7.0 (tags/3.7.0:1e6b0000, Jan 27 2019, 04:00:01) [AMD64] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
----- RESTART: C:/Python/IDM/temperature and humidity.py -----  
Normal Temperature And Humidity of: 37.94 Alarm is OFF  
Normal Temperature And Humidity of: 39.71 Alarm is OFF  
High Temperature And Humidity of: 82.24 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: 78.88 Alarm is ON  
High Temperature And Humidity of: 90.11 Alarm is ON  
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High Temperature And Humidity of: 68.47 Alarm is ON  
High Temperature And Humidity of: 88.20 Alarm is ON  
High Temperature And Humidity of: 64.15 Alarm is ON  
>>>
```