

Assignment -2

Python Programming

Assignment Date	28 September 2022
Student Name	Mr. ABDUL AZIZ M
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Maximum Marks	2 Marks

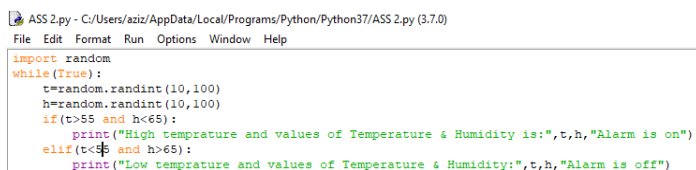
Question-1:

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

PROGRAM:

```
import random
while(True):
    t=random.randint(10,100)
    h=random.randint(10,100)
    if(t>55 and h<65):
        print("High temprature and values of Temperature & Humidity is:",t,h,"Alarm is on")
    elif(t<55 and h>65):
        print("Low temprature and values of Temperature & Humidity:",t,h,"Alarm is off")
```

OUTPUT:



The screenshot shows a Python IDE window titled "ASS 2.py - C:/Users/aziz/AppData/Local/Programs/Python/Python37/ASS 2.py (3.7.0)". The code is the same as in the program block. The output shows two lines: "High temprature and values of Temperature & Humidity is: 88, 55, Alarm is on" and "Low temprature and values of Temperature & Humidity: 45, 75, Alarm is off".

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:/Users/aziz/AppData/Local/Programs/Python/Python37/ASS 2.py ===
High temprature and values of Temperature & Humidity is: 61 34 Alarm is on
Low temprature and values of Temperature & Humidity: 15 95 Alarm is off
High temprature and values of Temperature & Humidity is: 59 48 Alarm is on
High temprature and values of Temperature & Humidity is: 88 51 Alarm is on
High temprature and values of Temperature & Humidity is: 81 12 Alarm is on
High temprature and values of Temperature & Humidity is: 65 51 Alarm is on
High temprature and values of Temperature & Humidity is: 58 49 Alarm is on
High temprature and values of Temperature & Humidity is: 85 58 Alarm is on
High temprature and values of Temperature & Humidity is: 97 55 Alarm is on
High temprature and values of Temperature & Humidity is: 80 51 Alarm is on
Low temprature and values of Temperature & Humidity: 24 80 Alarm is off
High temprature and values of Temperature & Humidity is: 83 40 Alarm is on
Low temprature and values of Temperature & Humidity: 54 81 Alarm is off
Low temprature and values of Temperature & Humidity: 34 87 Alarm is off
Low temprature and values of Temperature & Humidity: 47 92 Alarm is off
High temprature and values of Temperature & Humidity is: 83 42 Alarm is on
Low temprature and values of Temperature & Humidity: 14 74 Alarm is off
Low temprature and values of Temperature & Humidity: 32 97 Alarm is off
High temprature and values of Temperature & Humidity is: 74 39 Alarm is on
Low temprature and values of Temperature & Humidity: 26 78 Alarm is off
High temprature and values of Temperature & Humidity is: 87 41 Alarm is on
Low temprature and values of Temperature & Humidity: 41 85 Alarm is off
High temprature and values of Temperature & Humidity is: 89 57 Alarm is on
Low temprature and values of Temperature & Humidity: 22 89 Alarm is off
Low temprature and values of Temperature & Humidity: 31 82 Alarm is off
High temprature and values of Temperature & Humidity is: 68 32 Alarm is on
High temprature and values of Temperature & Humidity is: 73 16 Alarm is on
High temprature and values of Temperature & Humidity is: 72 19 Alarm is on
Low temprature and values of Temperature & Humidity: 40 97 Alarm is off
Low temprature and values of Temperature & Humidity: 15 89 Alarm is off
High temprature and values of Temperature & Humidity is: 79 47 Alarm is on
High temprature and values of Temperature & Humidity is: 88 48 Alarm is on
Low temprature and values of Temperature & Humidity: 41 87 Alarm is off
Low temprature and values of Temperature & Humidity: 18 74 Alarm is off
Low temprature and values of Temperature & Humidity: 22 97 Alarm is off
High temprature and values of Temperature & Humidity is: 57 63 Alarm is on
Low temprature and values of Temperature & Humidity: 11 70 Alarm is off
High temprature and values of Temperature & Humidity is: 60 30 Alarm is on
```