

Assignment -2

Python Programming

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| Assignment Date | 27 September 2022 |
| Student Name | RAMPRASATH.C |
| Student Roll Number | 620219106307 |
| Maximum Marks | 2 Marks |

Question-1:

Build a python code, assume u 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 random
while(True):
    t=random.randint(10,99)
    h=random.randint(10,99)
    if(t>30 and h<40):
        print("High Temprature and values of Temperature &Humidity:",t,h,"Alarm is on")
    elif(t<30 and h>40):
        print("Low Temprature and values of Temperature &Humidity:",t,h,"Alarm is off")
```

assignment 2.py - C:/Users/user/OneDrive/Desktop/assignment 2.py (3.9.7)

File Edit Format Run Options Window Help

```
import random
while(True):
    t=random.randint(10,99)
    h=random.randint(10,99)
    if(t>30 and h<40):
        print("High Temprature and values of Temperature &Humidity:",t,h,"Alarm is on")
    elif(t<30 and h>40):
        print("Low Temprature and values of Temperature &Humidity:",t,h,"Alarm is off")
```

IDLE Shell 3.9.7

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```
High Temprature and values of Temperature &Humidity: 87 58 Alarm is on
High Temprature and values of Temperature &Humidity: 35 14 Alarm is on
High Temprature and values of Temperature &Humidity: 74 19 Alarm is on
Low Temprature and values of Temperature &Humidity: 27 64 Alarm is off
High Temprature and values of Temperature &Humidity: 80 24 Alarm is on
Low Temprature and values of Temperature &Humidity: 19 49 Alarm is off
High Temprature and values of Temperature &Humidity: 59 24 Alarm is on
Low Temprature and values of Temperature &Humidity: 21 53 Alarm is off
Low Temprature and values of Temperature &Humidity: 27 53 Alarm is off
High Temprature and values of Temperature &Humidity: 53 20 Alarm is on
Low Temprature and values of Temperature &Humidity: 11 94 Alarm is off
Low Temprature and values of Temperature &Humidity: 20 85 Alarm is off
High Temprature and values of Temperature &Humidity: 36 27 Alarm is on
High Temprature and values of Temperature &Humidity: 49 35 Alarm is on
High Temprature and values of Temperature &Humidity: 97 31 Alarm is on
High Temprature and values of Temperature &Humidity: 96 23 Alarm is on
Low Temprature and values of Temperature &Humidity: 19 73 Alarm is off
High Temprature and values of Temperature &Humidity: 52 28 Alarm is on
High Temprature and values of Temperature &Humidity: 63 23 Alarm is on
High Temprature and values of Temperature &Humidity: 79 20 Alarm is on
High Temprature and values of Temperature &Humidity: 61 22 Alarm is on
Low Temprature and values of Temperature &Humidity: 27 50 Alarm is off
Low Temprature and values of Temperature &Humidity: 29 80 Alarm is off
High Temprature and values of Temperature &Humidity: 76 16 Alarm is on
High Temprature and values of Temperature &Humidity: 52 38 Alarm is on
Low Temprature and values of Temperature &Humidity: 29 59 Alarm is off
Low Temprature and values of Temperature &Humidity: 18 51 Alarm is off
High Temprature and values of Temperature &Humidity: 99 10 Alarm is on
High Temprature and values of Temperature &Humidity: 90 13 Alarm is on
Low Temprature and values of Temperature &Humidity: 15 43 Alarm is off
```

