

Assignment -2

Assignment Date	19 September 2022
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Maximum 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.

Code:

```
import random

while(True):

    t=random.randint(10,99)

    h=random.randint(10,99)

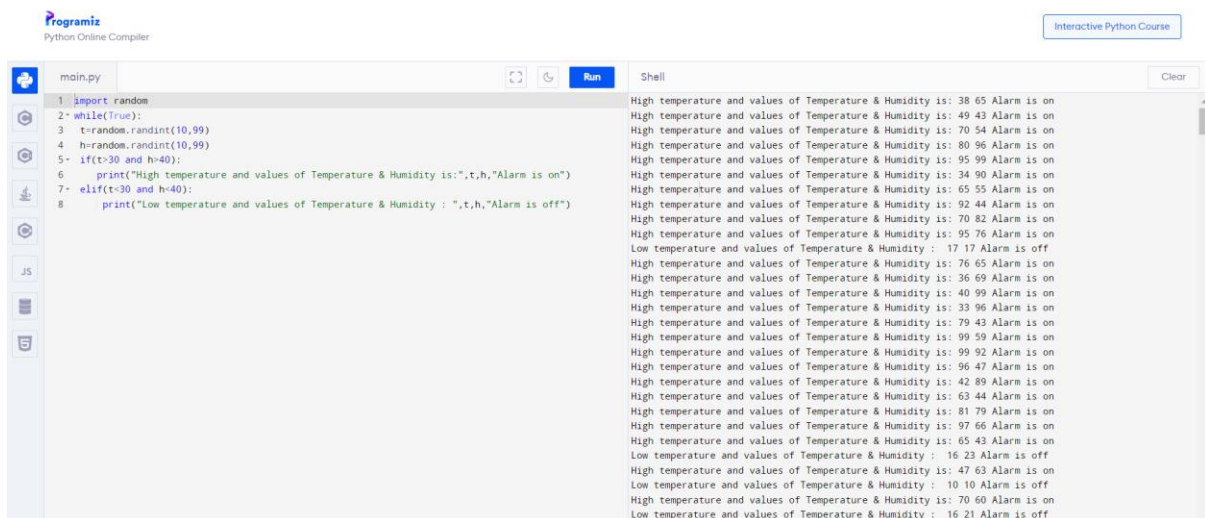
    if(t>30 and h>40):

        print("High temperature and values of Temperature & Humidity is:",t,h,"Alarm is on")

    elif(t<30 and h<40):

        print("Low temperature and values of Temperature & Humidity : ",t,h,"Alarm is off")
```

Output:



The screenshot shows the Programiz Python Online Compiler interface. The code editor on the left contains the Python code for the alarm system. The output window on the right displays the results of the program's execution, showing alternating messages for high and low temperature and humidity conditions.

```
1 import random
2 while(True):
3     t=random.randint(10,99)
4     h=random.randint(10,99)
5     if(t>30 and h>40):
6         print("High temperature and values of Temperature & Humidity is:",t,h,"Alarm is on")
7     elif(t<30 and h<40):
8         print("Low temperature and values of Temperature & Humidity : ",t,h,"Alarm is off")
```

High temperature and values of Temperature & Humidity is: 38 65 Alarm is on
High temperature and values of Temperature & Humidity is: 49 43 Alarm is on
High temperature and values of Temperature & Humidity is: 70 54 Alarm is on
High temperature and values of Temperature & Humidity is: 80 96 Alarm is on
High temperature and values of Temperature & Humidity is: 95 99 Alarm is on
High temperature and values of Temperature & Humidity is: 34 90 Alarm is on
High temperature and values of Temperature & Humidity is: 92 44 Alarm is on
High temperature and values of Temperature & Humidity is: 95 76 Alarm is on
High temperature and values of Temperature & Humidity is: 76 65 Alarm is on
High temperature and values of Temperature & Humidity is: 70 82 Alarm is on
High temperature and values of Temperature & Humidity is: 40 99 Alarm is on
High temperature and values of Temperature & Humidity is: 33 96 Alarm is on
High temperature and values of Temperature & Humidity is: 79 43 Alarm is on
High temperature and values of Temperature & Humidity is: 99 59 Alarm is on
High temperature and values of Temperature & Humidity is: 99 92 Alarm is on
High temperature and values of Temperature & Humidity is: 96 47 Alarm is on
High temperature and values of Temperature & Humidity is: 42 89 Alarm is on
High temperature and values of Temperature & Humidity is: 63 44 Alarm is on
High temperature and values of Temperature & Humidity is: 81 79 Alarm is on
High temperature and values of Temperature & Humidity is: 97 66 Alarm is on
High temperature and values of Temperature & Humidity is: 65 43 Alarm is on
Low temperature and values of Temperature & Humidity : 16 23 Alarm is off
High temperature and values of Temperature & Humidity is: 47 63 Alarm is on
Low temperature and values of Temperature & Humidity : 10 10 Alarm is off
High temperature and values of Temperature & Humidity is: 70 60 Alarm is on
Low temperature and values of Temperature & Humidity : 16 21 Alarm is off