

Assignment -2

| | |
|---------------------|-------------------|
| Assignment Date | 19 September 2022 |
| Student Name | Meha.M |
| Student Roll Number | 611219106044 |
| 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)

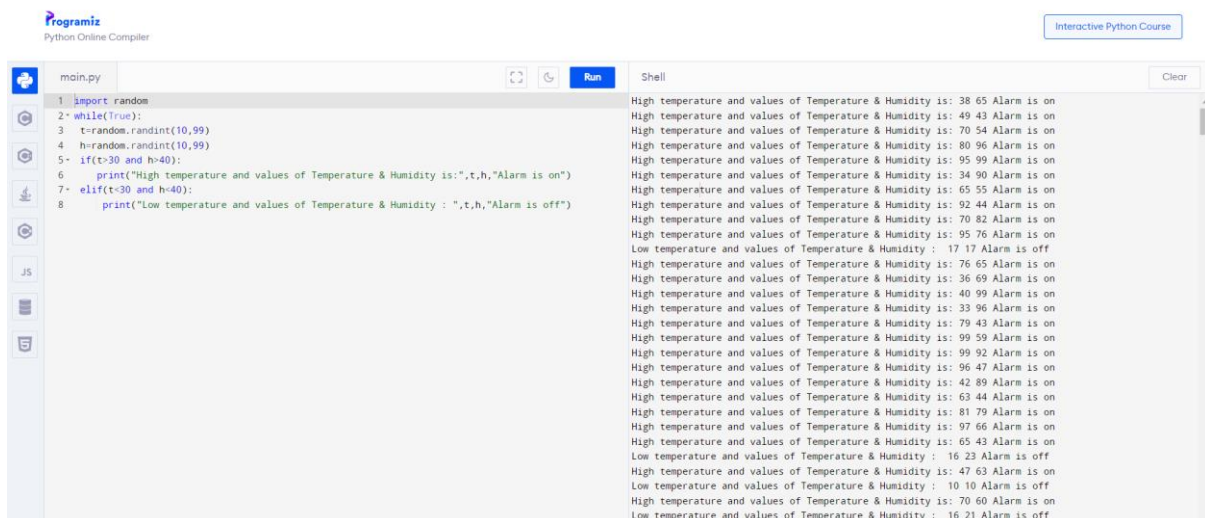
    if(t>30 and h>40):

        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. On the left, there's a sidebar with icons for file management and a 'main.py' file selected. The main area displays the Python code from the previous block. On the right, the 'Shell' output window shows the results of running the code. The output consists of multiple lines of text, each representing a random iteration of temperature (t) and humidity (h) values. Lines where both t > 30 and h > 40 are marked 'Alarm is on', while others are marked '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: 70 82 Alarm is on
High temperature and values of Temperature & Humidity is: 95 76 Alarm is on
Low temperature and values of Temperature & Humidity : 17 17 Alarm is off
High temperature and values of Temperature & Humidity is: 76 65 Alarm is on
High temperature and values of Temperature & Humidity is: 36 69 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
```