

ASSIGNMENT 2

| | |
|---------|-------------------|
| Date | 27 September 2022 |
| Team ID | PNT2022TMID14459 |
| Roll No | 711319EC123 |

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

PROGRAM

```
import random

while(True):

    a=random.randint(0,50)

    b=random.randint(20,90)

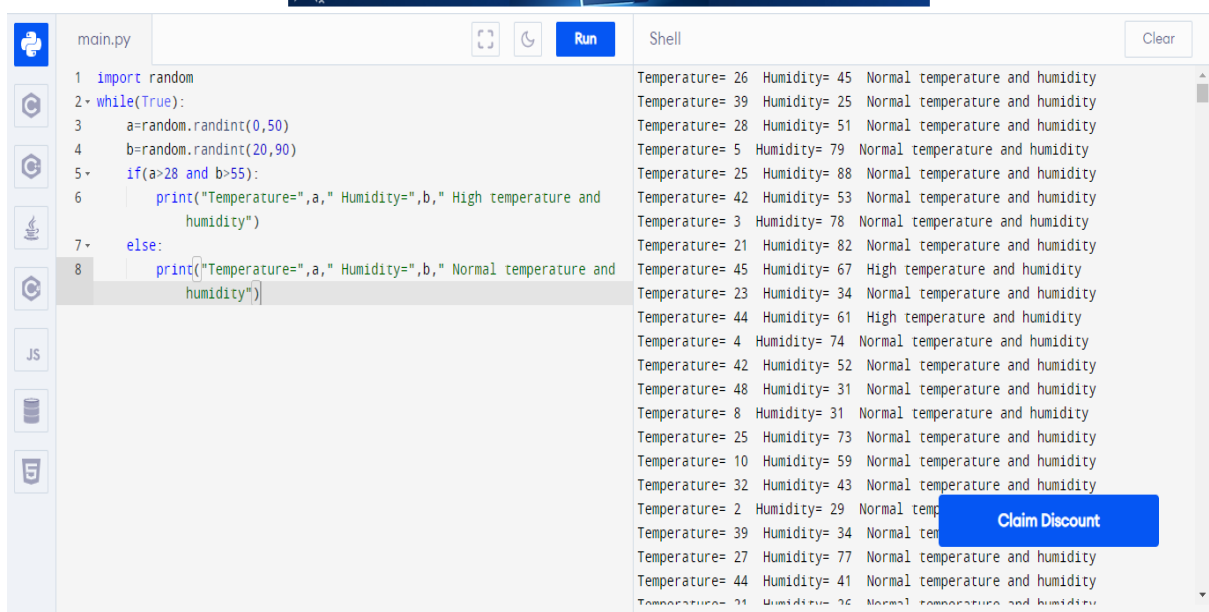
    if(t>28 and h>55):

        print("Temperature=",a," Humidity=",b," High temperature and humidity")

    else:

        print("Temperature=",a," Humidity=",b," Normal temperature and humidity")
```

OUTPUT



The screenshot shows a Python IDE with a file named 'main.py'. The code in the editor is as follows:

```
1 import random
2 while(True):
3     a=random.randint(0,50)
4     b=random.randint(20,90)
5     if(a>28 and b>55):
6         print("Temperature=",a," Humidity=",b," High temperature and humidity")
7     else:
8         print("Temperature=",a," Humidity=",b," Normal temperature and humidity")
```

The output window on the right displays the results of the program's execution. It shows a series of lines, each containing the temperature and humidity values generated by the random functions, followed by a status message. For example, the first few lines are:

```
Temperature= 26 Humidity= 45 Normal temperature and humidity
Temperature= 39 Humidity= 25 Normal temperature and humidity
Temperature= 28 Humidity= 51 Normal temperature and humidity
Temperature= 5 Humidity= 79 Normal temperature and humidity
Temperature= 25 Humidity= 88 Normal temperature and humidity
Temperature= 42 Humidity= 53 Normal temperature and humidity
Temperature= 3 Humidity= 78 Normal temperature and humidity
Temperature= 21 Humidity= 82 Normal temperature and humidity
Temperature= 45 Humidity= 67 High temperature and humidity
Temperature= 23 Humidity= 34 Normal temperature and humidity
Temperature= 44 Humidity= 61 High temperature and humidity
Temperature= 4 Humidity= 74 Normal temperature and humidity
Temperature= 42 Humidity= 52 Normal temperature and humidity
Temperature= 48 Humidity= 31 Normal temperature and humidity
Temperature= 8 Humidity= 31 Normal temperature and humidity
Temperature= 25 Humidity= 73 Normal temperature and humidity
Temperature= 10 Humidity= 59 Normal temperature and humidity
Temperature= 32 Humidity= 43 Normal temperature and humidity
Temperature= 2 Humidity= 29 Normal temperature and humidity
Temperature= 39 Humidity= 34 Normal temperature and humidity
Temperature= 27 Humidity= 77 Normal temperature and humidity
Temperature= 44 Humidity= 41 Normal temperature and humidity
Temperature= 31 Humidity= 26 Normal temperature and humidity
```

A blue button labeled 'Claim Discount' is visible in the bottom right corner of the output window.