

**ASSIGNMENT – 2**

**PYTHON PROGRAMMING**

|                     |   |
|---------------------|---|
| Assignment Date     | 28-09-2022  |
| Student Name        | Akshaya H<br>DivyaPriya D<br>Janani K R<br>Sowmiyaa S U |
| Student Roll Number | 2019105508<br>2019105529<br>2019105539<br>2019105579    |
| Maximum Marks       | 2 Marks   |

**QUESTION 1:**

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.

**SOLUTION:**

```
import random

while(True):

    temperature=random.randint(20,120)

    humidity=random.randint(20,120)

    print(temperature)

    print(humidity)

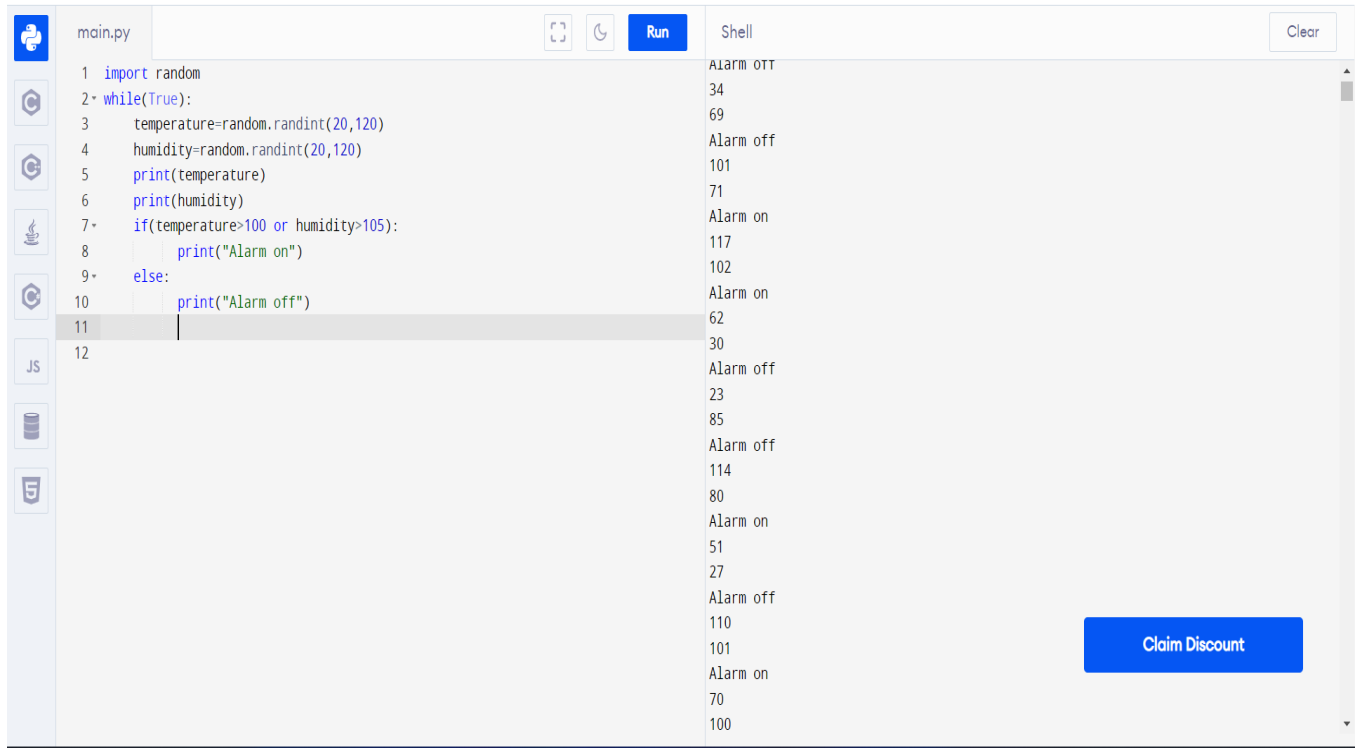
    if(temperature>100 or humidity>105):

        print("Alarm on")

    else:

        print("Alarm off")
```

## OUTPUT:



The screenshot shows a code editor with a file named `main.py`. The code is a Python script that generates random temperature and humidity values and prints an alarm status based on thresholds. The output shows a sequence of these values and the resulting alarm status.

```
1 import random
2 while(True):
3     temperature=random.randint(20,120)
4     humidity=random.randint(20,120)
5     print(temperature)
6     print(humidity)
7     if(temperature>100 or humidity>105):
8         print("Alarm on")
9     else:
10        print("Alarm off")
11
12
```

The output in the Shell window is as follows:

```
Alarm off
34
69
Alarm off
101
71
Alarm on
117
102
Alarm on
62
30
Alarm off
23
85
Alarm off
114
80
Alarm on
51
27
Alarm off
110
101
Alarm on
70
100
```

A [Claim Discount](#) button is visible in the bottom right corner of the output area.