

## Assignment -2

### Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

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

```
import random

while(True):

    a=random.randint(5,200)

    b=random.randint(5,200)

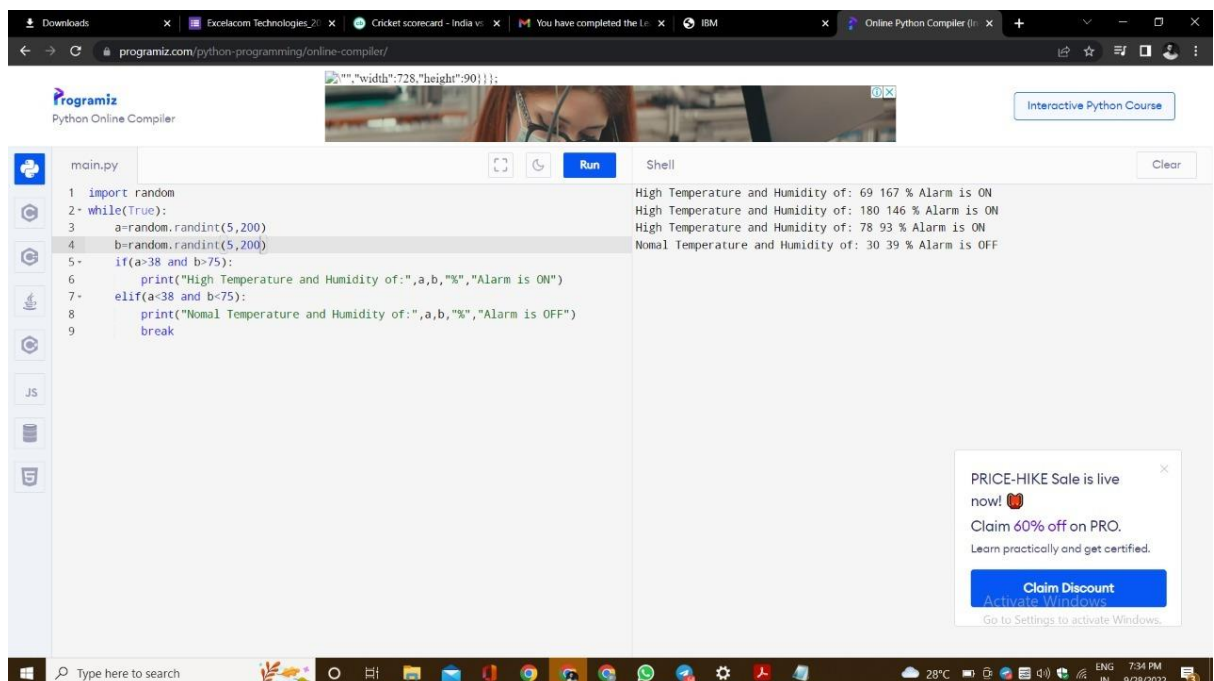
    if(a>38 and b>75):

        print("High Temperature and Humidity of:",a,b,"%","Alarm is ON")

    elif(a<38 and b<75):

        print("Nomal Temperature and Humidity of:",a,b,"%","Alarm is OFF")

    break
```



The screenshot displays the Programiz Python Online Compiler interface. The code editor on the left contains the following Python code:

```
1 import random
2 while(True):
3     a=random.randint(5,200)
4     b=random.randint(5,200)
5     if(a>38 and b>75):
6         print("High Temperature and Humidity of:",a,b,"%","Alarm is ON")
7     elif(a<38 and b<75):
8         print("Nomal Temperature and Humidity of:",a,b,"%","Alarm is OFF")
9     break
```

The output window on the right shows the results of the code execution:

```
High Temperature and Humidity of: 69 167 % Alarm is ON
High Temperature and Humidity of: 180 146 % Alarm is ON
High Temperature and Humidity of: 78 93 % Alarm is ON
Nomal Temperature and Humidity of: 30 39 % Alarm is OFF
```

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