

## Assignment -2

Assignment Date	19 September 2022
Student Name	Arshaath A
Student Roll Number	611219106002
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):

    x=random.randint(10,99)

    y=random.randint(10,99)

    if(x>40 and y>70):

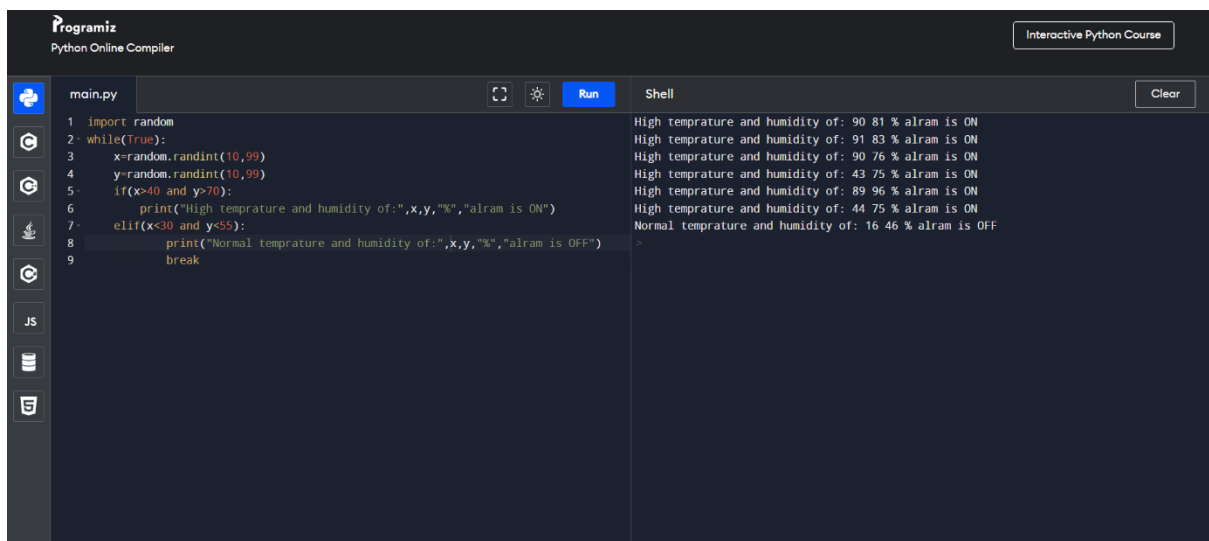
        print("High temprature and humidity of:",x,y,"%","alarm is ON")

    elif(x<30 and y<55):

        print("Normal temprature and humidity of:",x,y,"%","alarm is OFF")

    break
```

### Output:



The screenshot shows the Programiz Python Online Compiler interface. On the left, the code editor displays the Python code for the alarm system. On the right, the Shell window shows the output of the code, which consists of several lines of text indicating the status of the alarm based on random temperature and humidity values.

```
main.py  Run  Shell  Clear
```

```
1 import random
2 while(True):
3     x=random.randint(10,99)
4     y=random.randint(10,99)
5     if(x>40 and y>70):
6         print("High temprature and humidity of:",x,y,"%","alarm is ON")
7     elif(x<30 and y<55):
8         print("Normal temprature and humidity of:",x,y,"%","alarm is OFF")
9     break
```

```
High temprature and humidity of: 90 81 % alram is ON
High temprature and humidity of: 91 83 % alram is ON
High temprature and humidity of: 90 76 % alram is ON
High temprature and humidity of: 43 75 % alram is ON
High temprature and humidity of: 89 96 % alram is ON
High temprature and humidity of: 44 75 % alram is ON
Normal temprature and humidity of: 16 46 % alram is OFF
>
```