

## Assignment -2

### Python programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

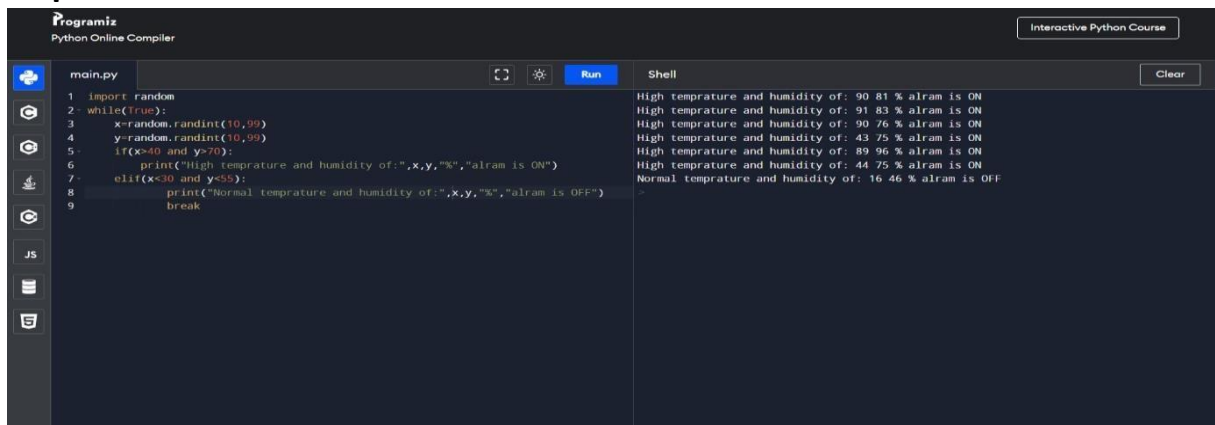
### Question:

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 a web-based Python IDE. On the left, a file explorer shows 'main.py'. The editor contains the following code:

```
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
```

On the right, the 'Shell' tab shows the output of the program:

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