

## Assignment -2

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|---------------------|--------------------|
| Assignment Date     | 28 September 2022  |
| Student Name        | Vijay Adhars Raj S |
| Student Roll Number | 620119104113       |
| Maximum Marks       | 2 Marks            |

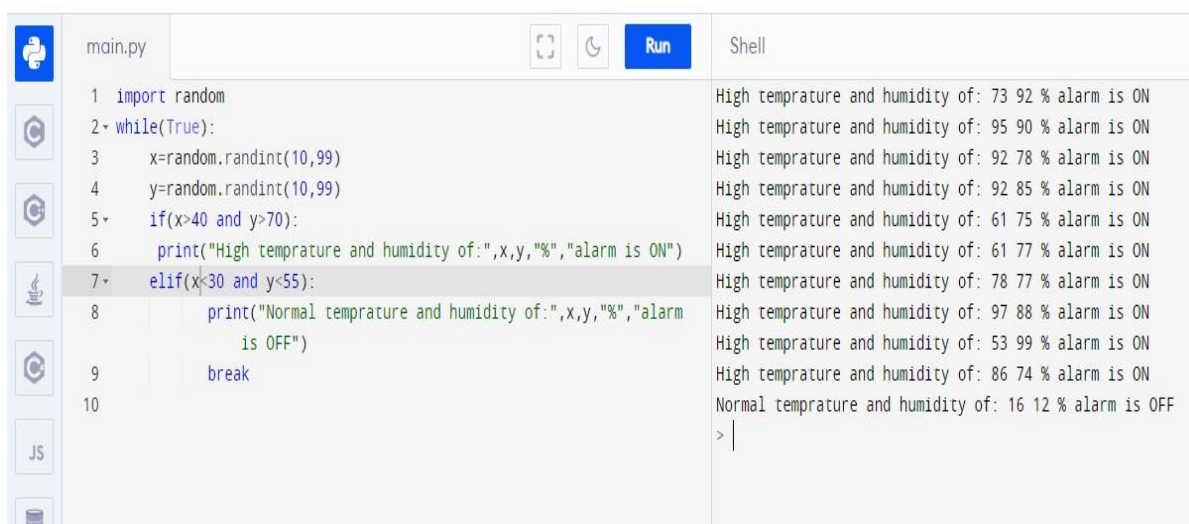
### Question:

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(10,9
    9)
    y=random.randint(10,9
    9) 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 Python IDE interface. On the left, there's a sidebar with icons for Python, JavaScript, and a database. The main area is split into two panes. The left pane shows a file named 'main.py' with 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
10
```

The right pane, titled 'Shell', shows the output of the program. It displays a series of lines where the program repeatedly generates random values for temperature (x) and humidity (y), and prints a message indicating whether an alarm is ON or OFF based on the conditions in the code. The output lines are:

```
High temprature and humidity of: 73 92 % alarm is ON
High temprature and humidity of: 95 90 % alarm is ON
High temprature and humidity of: 92 78 % alarm is ON
High temprature and humidity of: 92 85 % alarm is ON
High temprature and humidity of: 61 75 % alarm is ON
High temprature and humidity of: 61 77 % alarm is ON
High temprature and humidity of: 78 77 % alarm is ON
High temprature and humidity of: 97 88 % alarm is ON
High temprature and humidity of: 53 99 % alarm is ON
High temprature and humidity of: 86 74 % alarm is ON
Normal temprature and humidity of: 16 12 % alarm is OFF
> |
```