

## Assignment -2

Assignment Date	19 September 2022
Student Name	Iniyavan V
Student Roll Number	611219106030
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 Python IDE interface. On the left, there's a sidebar with icons for Python, Jupyter, JS, and a database. The main area is split into two panes. The left pane, titled 'main.py', contains the Python code from the previous block. The right pane, titled 'Shell', shows the output of the code. The output consists of ten lines, each representing a random iteration of the while loop. Each line follows the format: 'High temprature and humidity of: [x] [y] % alarm is ON' or 'Normal temprature and humidity of: [x] [y] % alarm is OFF'. The first nine lines show 'alarm is ON' and the tenth line shows 'alarm is OFF'. The code in the left pane has line numbers 1 through 10. The output in the right pane has a prompt character '>' at the bottom, indicating it's ready for more input.

```
main.py  Run  Shell

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

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
> |
```