

## Assignment -2

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 Python IDE interface. On the left, there's a sidebar with icons for Python, Jupyter, and JS. 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 of text, each representing a random iteration of the while loop. The first nine lines all show 'High temprature and humidity of: [x] [y] % alarm is ON', indicating that the condition for a high alarm was met in all those iterations. The tenth line shows 'Normal temprature and humidity of: 16 12 % alarm is OFF', indicating that the condition for a normal alarm was met in that iteration. The code in the left pane is as follows:

```
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 output in the Shell pane is as follows:

```
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
> |
```