

## 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 is a sidebar with icons for Python, Jupyter, and JS. The main area is divided into two panes. The left pane, titled 'main.py', contains the Python code from the previous block. The right pane, titled 'Shell', displays the output of the code. The output consists of ten lines of text, each showing a random temperature and humidity value followed by an alarm status. The first nine lines show 'High temprature and humidity of: [x] [y] % alarm is ON' and the tenth line shows 'Normal temprature and humidity of: [x] [y] % alarm is OFF'. 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
> |
```