

Assignment -2

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| Assignment Date | 28 September 2022 |
| Student Name | Vigneshkumar S |
| Student Roll Number | 611219106310 |
| 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, a file explorer, a search bar, and a JS icon. 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. 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 values of x and y are two-digit integers. The output ends with a prompt character '>' on a new line.

```
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
> |
```