

Assignment -2

Assignment Date	28 September 2022
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Student Roll Number	611219106031
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):

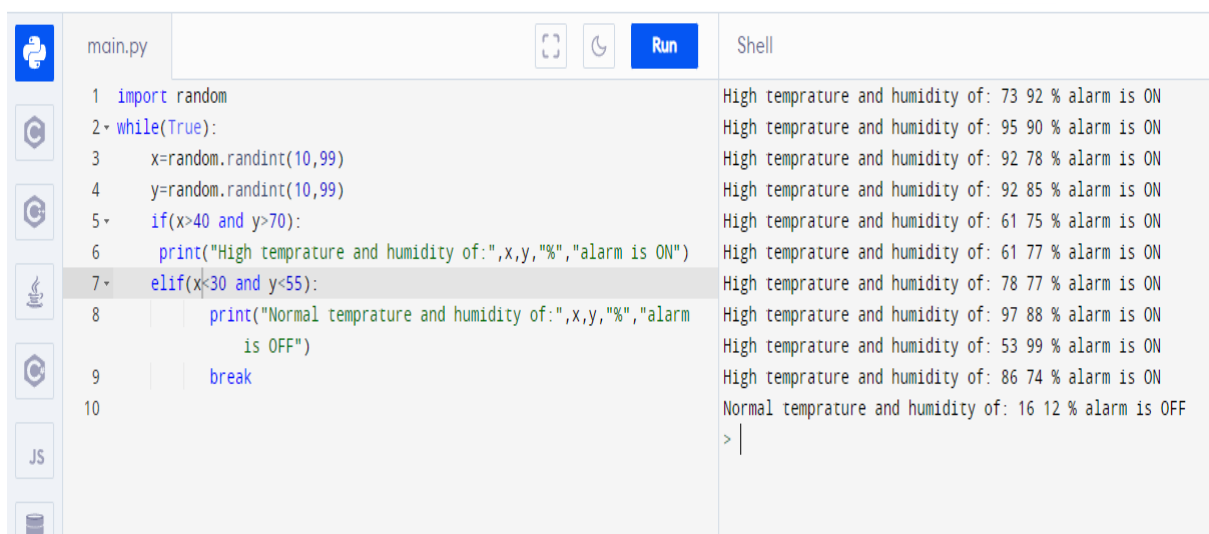
        print("High temprature and humidity of:",x,y,"%","alarm is ON")

    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, C, C++, Java, JavaScript, and a database. The main editor window displays a Python script named 'main.py'. The script contains a while loop that generates random temperature (x) and humidity (y) values. It checks if x is greater than 40 and y is greater than 70, printing 'High temprature and humidity of: x,y,"%","alarm is ON' if true. Otherwise, it prints 'Normal temprature and humidity of: x,y,"%","alarm is OFF'. The script ends with a break statement. On the right, the 'Shell' window shows the output of the script, displaying multiple lines of the 'High temprature and humidity of: 73 92 % alarm is ON' message, followed by a prompt character '>'.

```
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
> |
```