

Assignment -2

Python programming

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):

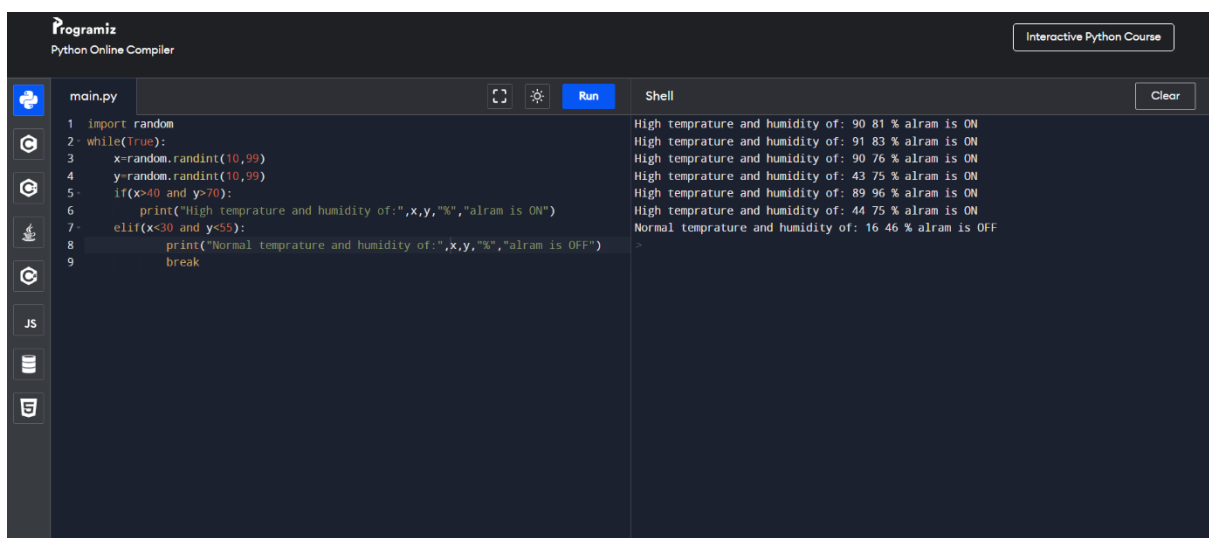
        print("High temprature and humidity of:",x,y,"%","alarm is ON")

    elif(x<30 and y<55):

        print("Normal temprature and humidity of:",x,y,"%","alarm is OFF")

    break
```

Output:



The screenshot shows a web-based Python IDE. On the left, a sidebar contains icons for file management, a terminal, and other tools. The main editor area displays the Python code from the previous block. To the right of the code editor is a 'Shell' window showing the output of the program. The output consists of several lines of text, each representing a single iteration of the while loop. Each line shows the generated temperature (x) and humidity (y) values, followed by the corresponding alarm status (ON or OFF). The output demonstrates that the alarm is triggered when both temperature and humidity are high, and it is turned off when both are low.

```
main.py Run Shell Clear
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

High temprature and humidity of: 90 81 % alarm is ON
High temprature and humidity of: 91 83 % alarm is ON
High temprature and humidity of: 90 76 % alarm is ON
High temprature and humidity of: 43 75 % alarm is ON
High temprature and humidity of: 89 96 % alarm is ON
High temprature and humidity of: 44 75 % alarm is ON
Normal temprature and humidity of: 16 46 % alarm is OFF
```