

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):

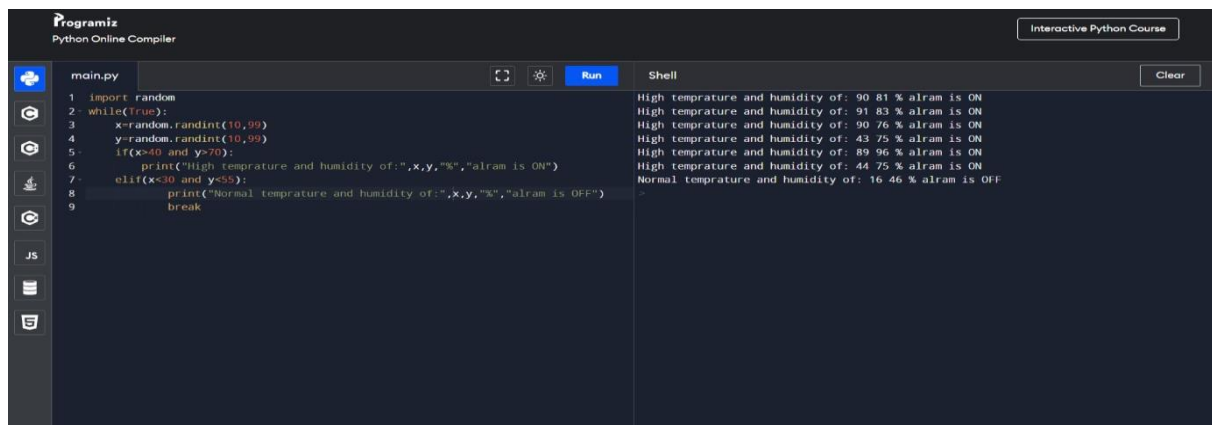
print("High temprature and humidity of:",x,y,"%","alarm is ON")

elif(x<30 and y<55):

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

break
```

Output:



The screenshot shows the Programiz Python Online Compiler interface. The code editor on the left contains the Python code for the assignment. The output shell on the right displays the results of the code execution, showing multiple iterations of the while loop. The output indicates that the alarm is ON for high temperature and humidity, and OFF for normal temperature and humidity.

```
main.py
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
```

Shell

```
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
```