

IOT Assignment

Topic : Temperature and Humidity sensing and alarm automation using python

Code:

```
import random

while(True):

    o=random.randint(10,99)

    p=random.randint(10,99)

    if(o > 30 and p > 75):

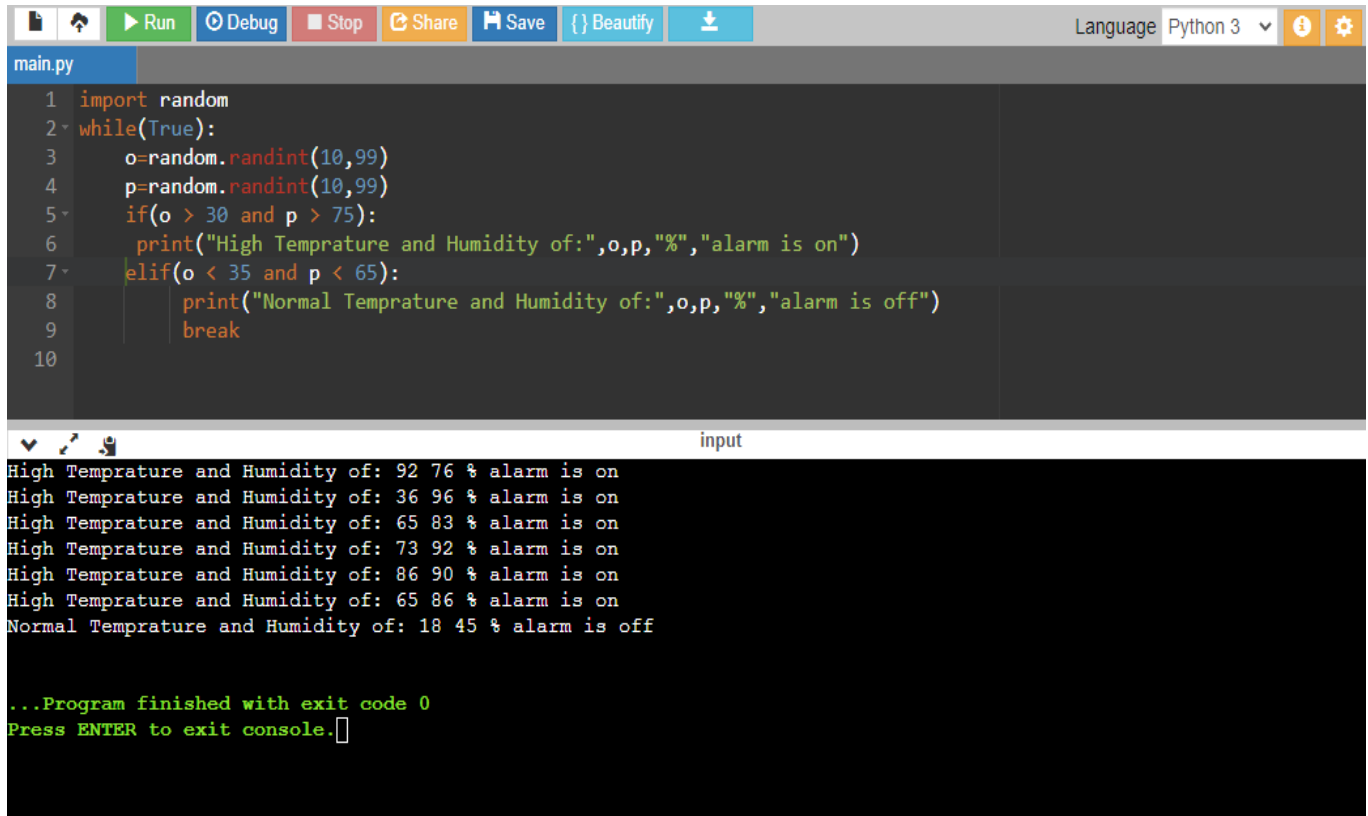
        print("High Temperature and Humidity of:",o,p,"%","alarm is on")

    elif(o < 35 and p < 65):

        print("Normal Temperature and Humidity of:",o,p,"%","alarm is off")

    break
```

OUTPUT:



The screenshot shows a Python IDE interface. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Python 3. The editor displays a file named `main.py` with the following code:

```
1 import random
2 while(True):
3     o=random.randint(10,99)
4     p=random.randint(10,99)
5     if(o > 30 and p > 75):
6         print("High Temprature and Humidity of:",o,p,"%","alarm is on")
7     elif(o < 35 and p < 65):
8         print("Normal Temprature and Humidity of:",o,p,"%","alarm is off")
9         break
10
```

Below the editor, the output console is visible, showing the results of the program's execution. The output consists of six lines of text, each representing a random sample of temperature and humidity, followed by a status message. The first five lines show "High Temprature and Humidity" with "alarm is on", and the sixth line shows "Normal Temprature and Humidity" with "alarm is off". The console also displays the message "...Program finished with exit code 0" and "Press ENTER to exit console.".

```
High Temprature and Humidity of: 92 76 % alarm is on
High Temprature and Humidity of: 36 96 % alarm is on
High Temprature and Humidity of: 65 83 % alarm is on
High Temprature and Humidity of: 73 92 % alarm is on
High Temprature and Humidity of: 86 90 % alarm is on
High Temprature and Humidity of: 65 86 % alarm is on
Normal Temprature and Humidity of: 18 45 % alarm is off

...Program finished with exit code 0
Press ENTER to exit console.
```