

PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

Department of Electronics and Communication Engineering

ASSIGNMENT 2

NalayaThiran IOT Domain : IOT Enabled Smart waste management system for metropolitan cities

Topic : Assignment on temperature and humidity sensing and alarm automation using python

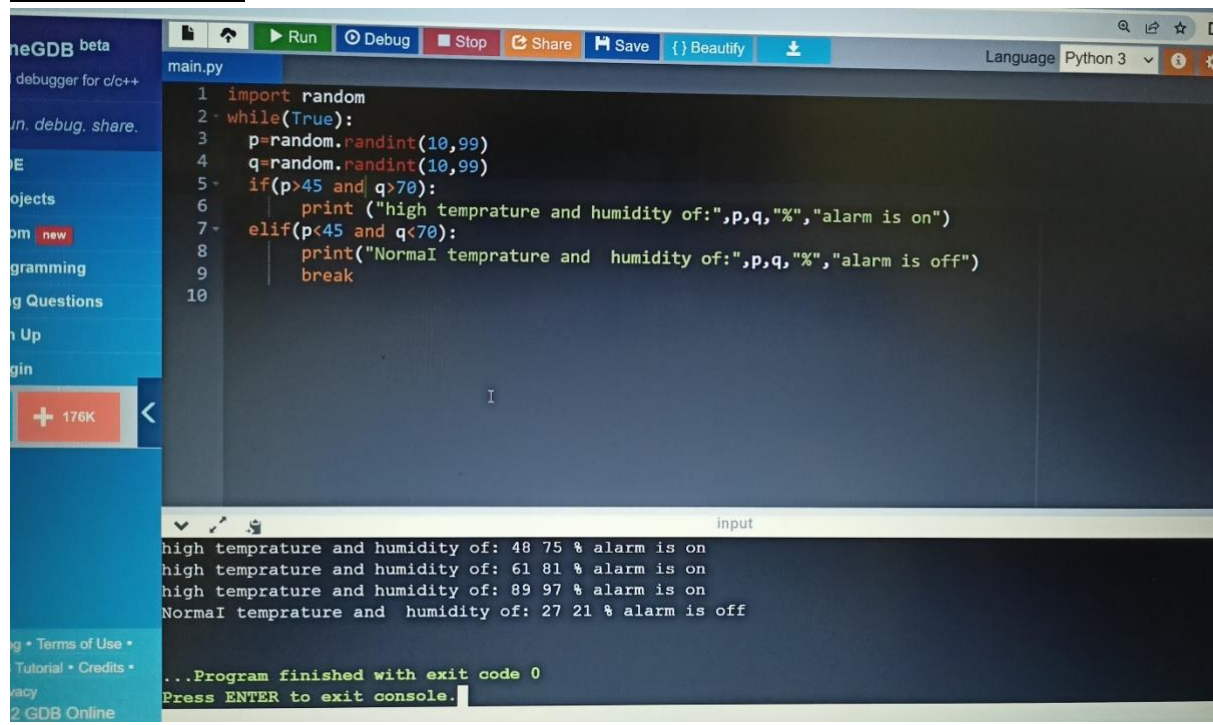
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Python Code:

```
import random
while(True):
    p=random.randint(10,99)
    q=random.randint(10,99)
    if(p>45 and q>70):
        print ("high temprature and humidity of:",p,q,"%","alarm is on")
    elif(p<45 and q<70):
        print("Normal temprature and humidity of:",p,q,"%","alarm is off")
    break
```

Execution



The screenshot displays the neGDB web interface for running a Python program. The code in `main.py` is as follows:

```
1 import random
2 while(True):
3     p=random.randint(10,99)
4     q=random.randint(10,99)
5     if(p>45 and q>70):
6         print ("high temprature and humidity of:",p,q,"%","alarm is on")
7     elif(p<45 and q<70):
8         print("NormaI temprature and humidity of:",p,q,"%","alarm is off")
9         break
10
```

The execution output in the console shows the following results:

```
high temprature and humidity of: 48 75 % alarm is on
high temprature and humidity of: 61 81 % alarm is on
high temprature and humidity of: 89 97 % alarm is on
NormaI temprature and humidity of: 27 21 % alarm is off

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