

Sethu Institute Of Technology-Kariapatti

[Department of Computer science & Engineering]

ASSIGNMENT -02

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TOPIC: Temperature and humidity sensing and alarm automation using python

CODE:

```
import random

while(True):

    a=random.randint(10,99)

    b=random.randint(10,99)

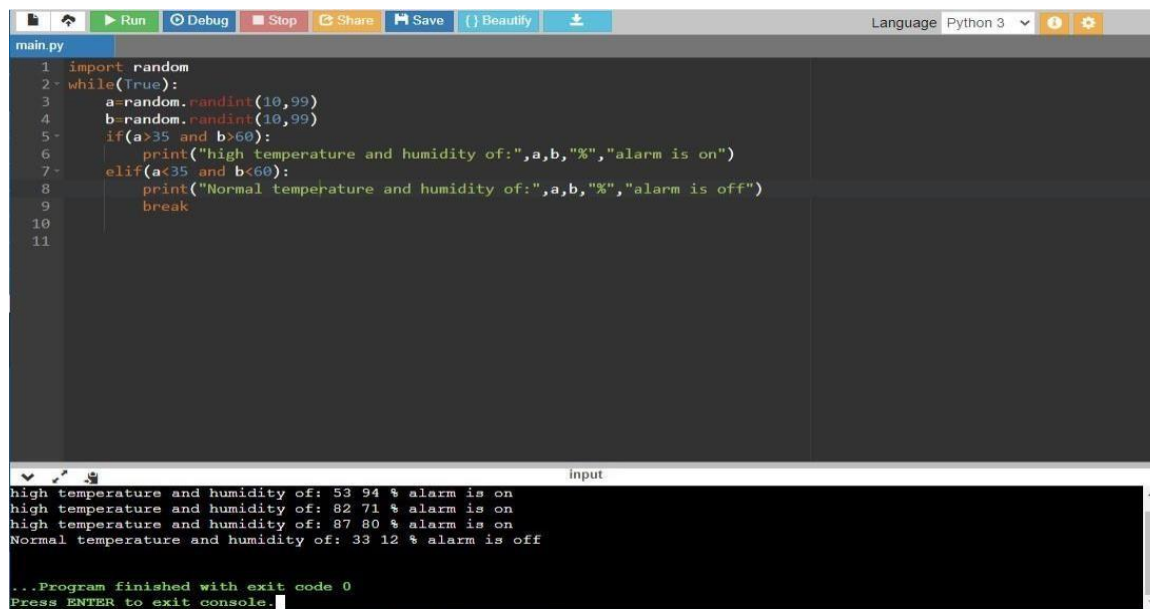
    if(a>35 and b>60):

        print("high temperature and humidity of:",a,b,"%","alarm is on")

    elif(a<35 and b<60): print("Normal temperature and humidity of:",a,b,"%","alarm

is off") break
```

OUTPUT:

A screenshot of a Python IDE window titled 'main.py'. The code is as follows:

```
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temperature and humidity of:",a,b,"%","alarm is on")
7     elif(a<35 and b<60):
8         print("Normal tempeature and humidity of:",a,b,"%","alarm is off")
9         break
10
11
```

The IDE has a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. Below the code editor is a console window showing the output:

```
high temperature and humidity of: 53 94 % alarm is on
high temperature and humidity of: 82 71 % alarm is on
high temperature and humidity of: 87 80 % alarm is on
Normal temperature and humidity of: 33 12 % alarm is off
...Program finished with exit code 0
Press ENTER to exit console.
```