

Government College of Engineering-Salem 11

[Department of Electronics & Communication Engineering]

ASSIGNMENT -02

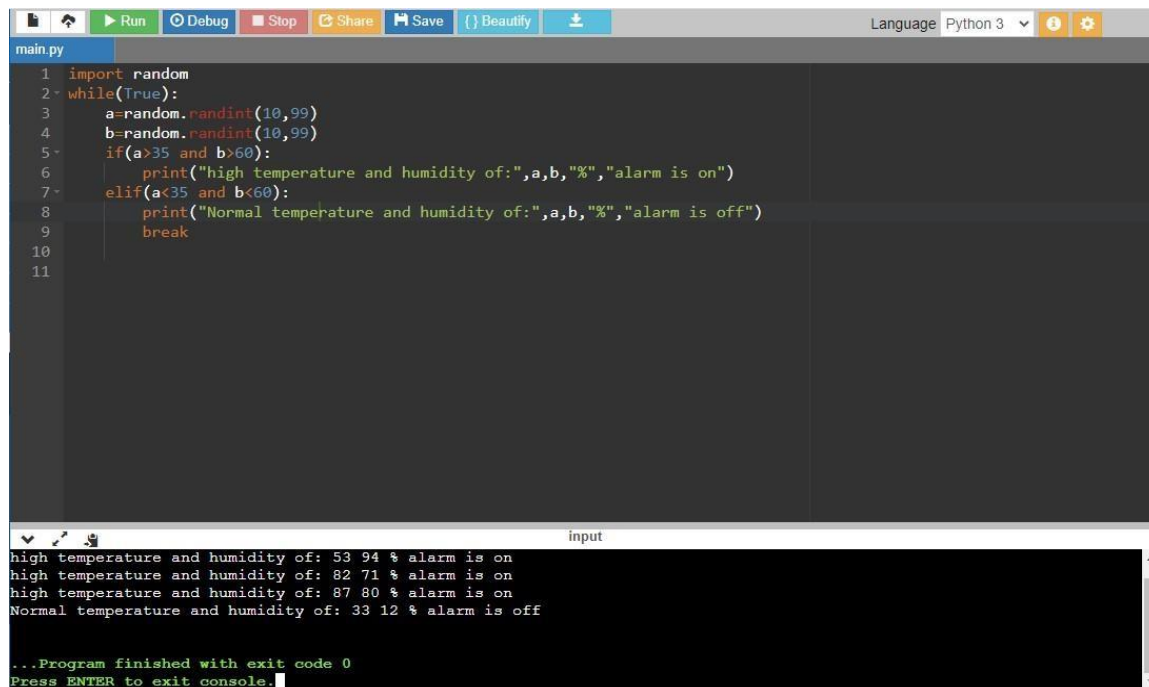
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TOPIC: Temperature and humidity sensing and alarm automation using python

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:



The screenshot shows 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 temperature and humidity of:",a,b,"%","alarm is off")
9         break
10
11
```

The output window at the bottom shows the following results:

```
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.
```