

RAJALAKSHMI INSTITUTE OF TECHNOLOGY
[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):
```

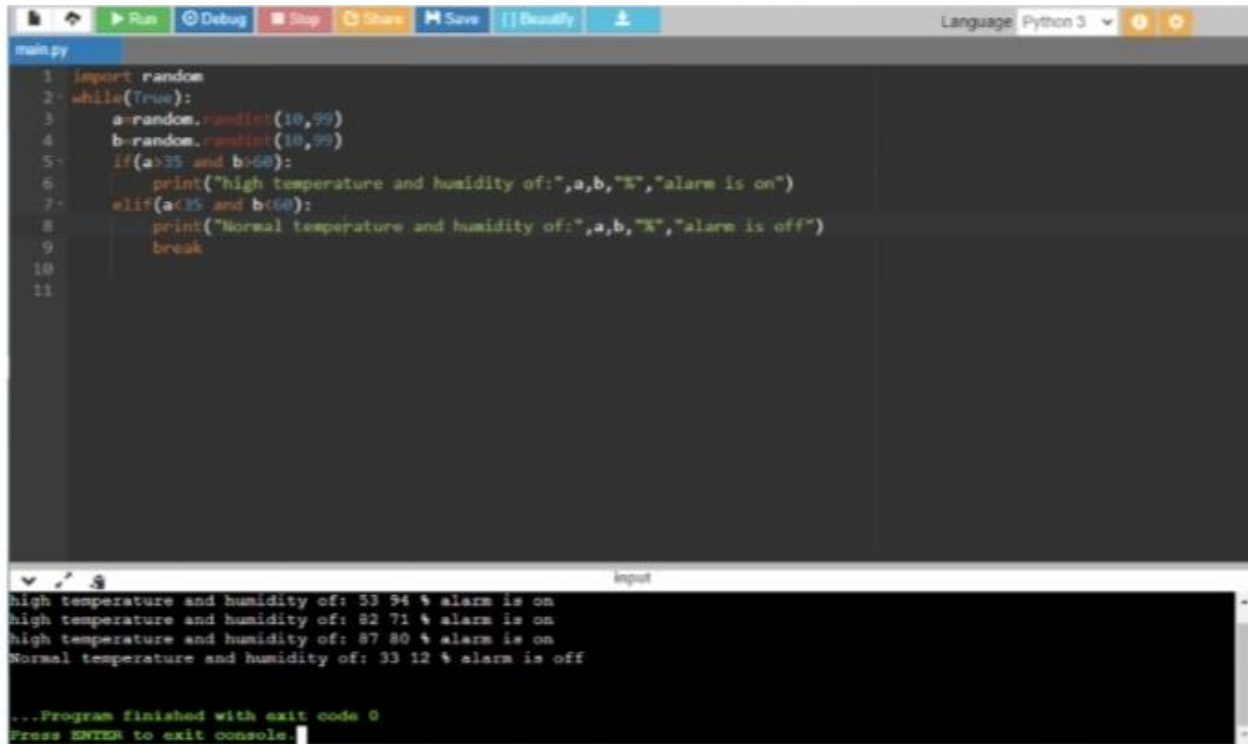
```
        print("high temperature and humidity of:",a,b,"%","alarm is on")
```

```
    elif(a<35 and b<60):
```

```
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")
```

```
    Break
```

OUTPUT:



The image shows a screenshot of a Python IDE. The top toolbar includes buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. The editor window shows a file named 'main.py' with the following code:

```
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 execution 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
```