

Assignment -2

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TOPIC: Assignment on 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):
```

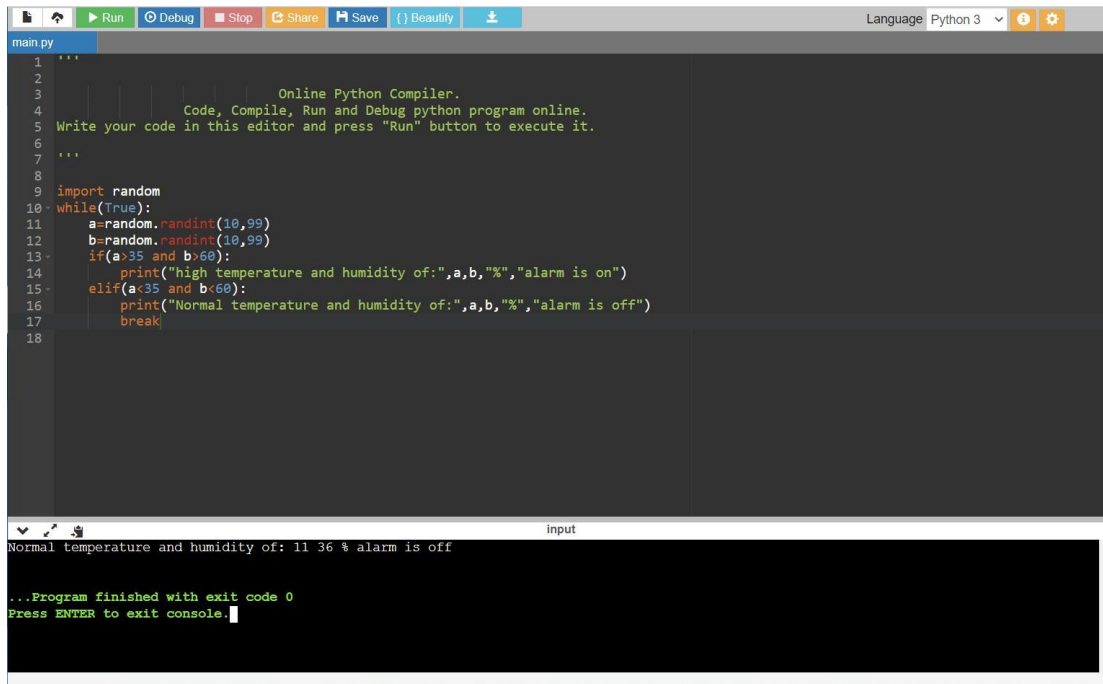
```
        print("high temperature and humidity of:",a,b,"% ","alarm is on")
```

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

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

```
    break
```

OUTPUT



The screenshot displays an online Python compiler interface. The top bar includes icons for file operations and a language dropdown set to 'Python 3'. The main editor area contains a Python script with a while loop that generates random temperature and humidity values. The output console at the bottom shows the execution result, indicating that the alarm is off for the given values.

```
1  """
2
3      Online Python Compiler.
4      Code, Compile, Run and Debug python program online.
5      Write your code in this editor and press "Run" button to execute it.
6  """
7
8  import random
9
10 while(True):
11     a=random.randint(10,99)
12     b=random.randint(10,99)
13     if(a>35 and b>60):
14         print("high temperature and humidity of:",a,b,"%","alarm is on")
15     elif(a<35 and b<60):
16         print("Normal temperature and humidity of:",a,b,"%","alarm is off")
17         break
18
```

input

Normal temperature and humidity of: 11 36 % alarm is off

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