

ASSISGNMENT - 2

Now we are going to Build a python code , Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature?

PROGRAM:

```
import random while(True):
```

```
a=random.randint(10,99)
```

```
b=random.randint(10,99)
```

```
if(a>35 and b>60):
```

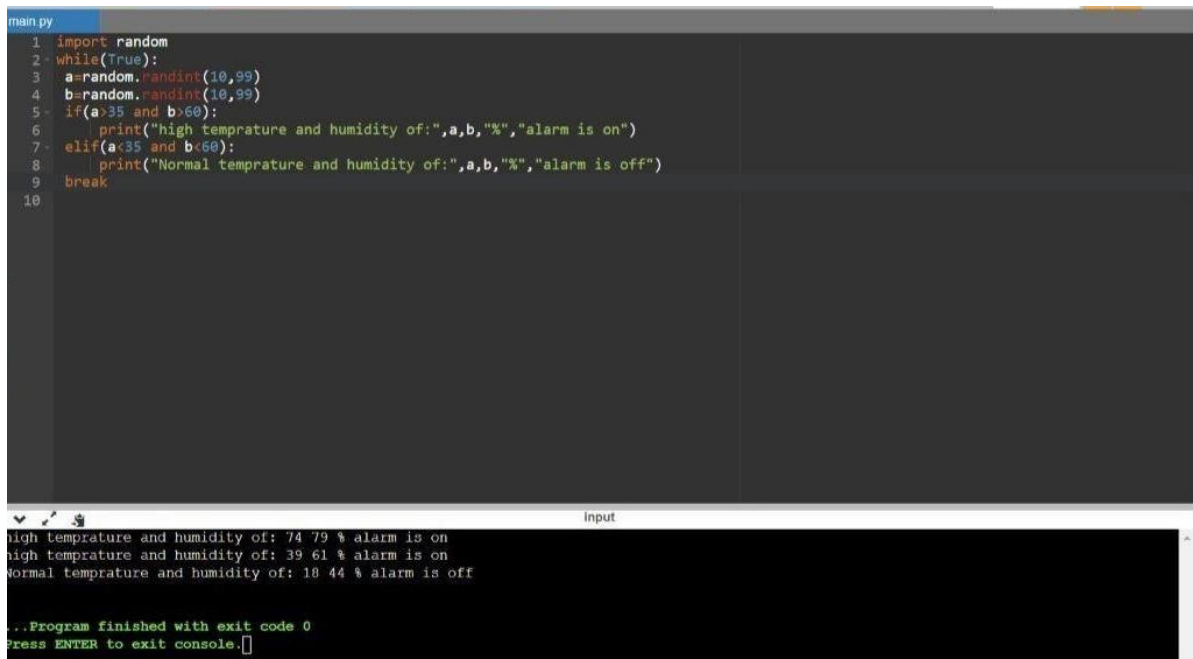
```
    print("high temprature and humidity of:",a,b,"%","alarm is on")
```

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

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

```
break
```

OUTPUT:

The image shows a screenshot of a Python IDE. The top pane displays the code for the program, which is a while loop that generates random temperature (a) and humidity (b) values. It checks if both are high (a > 35 and b > 60) to print 'alarm is on', or if both are low (a < 35 and b < 60) to print 'alarm is off'. The loop breaks after the first iteration. The bottom pane shows the output of the program, which matches the code's logic: 'high temprature and humidity of: 74 79 % alarm is on', 'high temprature and humidity of: 39 61 % alarm is on', and 'Normal temprature and humidity of: 18 44 % alarm is off'. The program ends with 'Program finished with exit code 0' and a prompt to press ENTER to exit the console.

```
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 temprature and humidity of:",a,b,"%","alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temprature and humidity of:",a,b,"%","alarm is off")
9     break
10
```

high temprature and humidity of: 74 79 % alarm is on
high temprature and humidity of: 39 61 % alarm is on
Normal temprature and humidity of: 18 44 % alarm is off
...Program finished with exit code 0
Press ENTER to exit console.